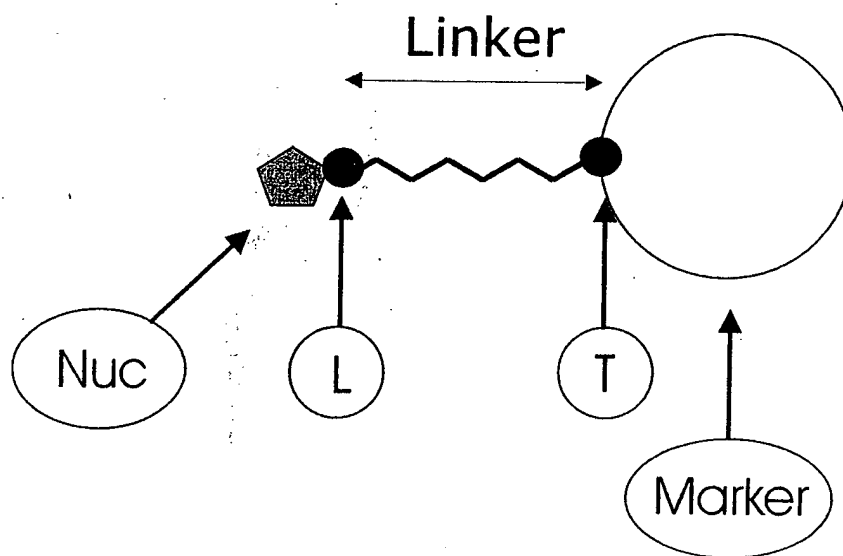


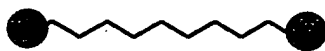
Fig. 1



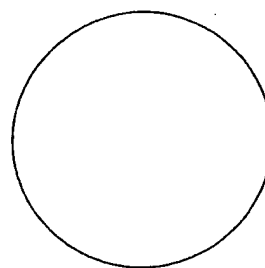
Legend:



Nuc-component

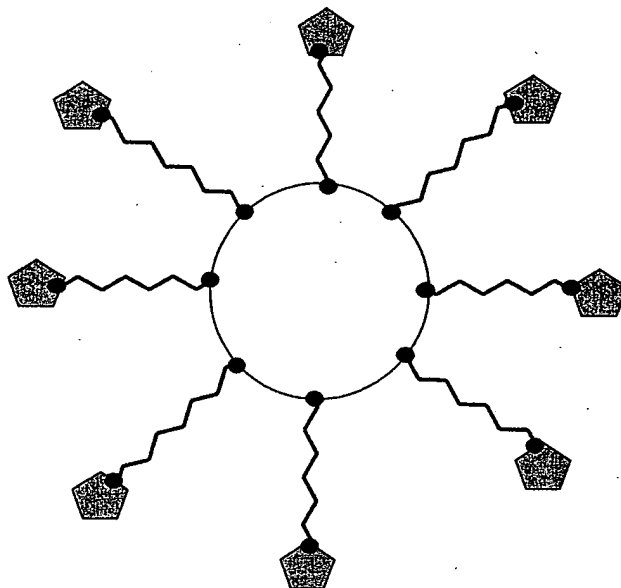


Linker component



Marker component

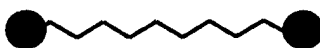
Fig. 2



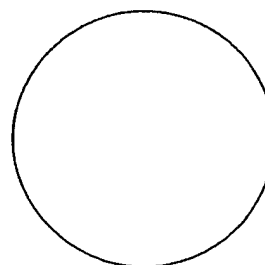
Legend:



Nuc-component



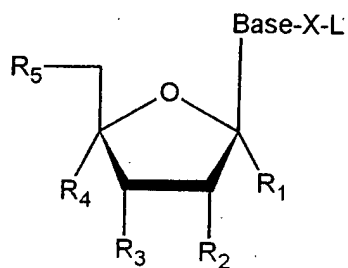
Linker component



Marker component

Fig. 3

A)



B)

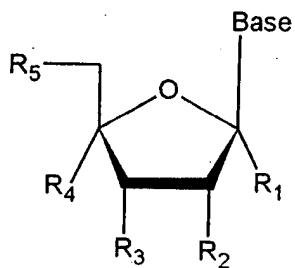
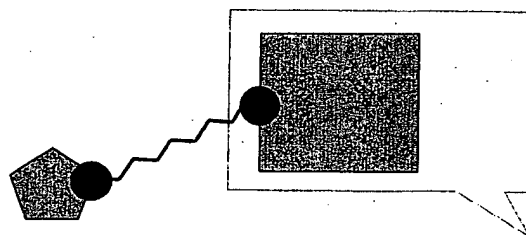


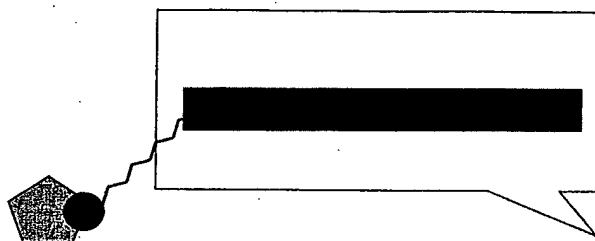
Fig. 4

A)



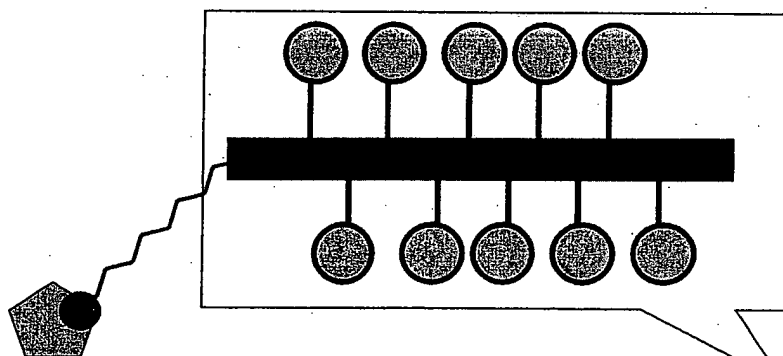
Macromolecular
marker unit

B)



Core component

C)



Core component
with marker units

Legend:

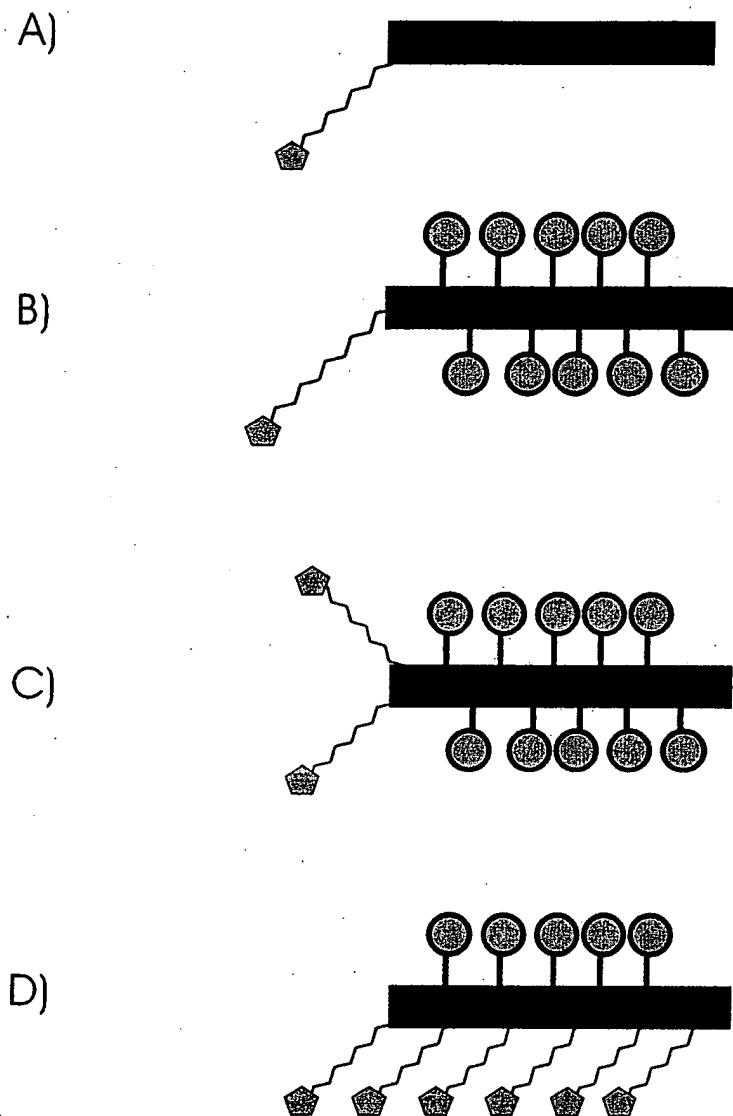


Nuc-component



Linker component

Fig. 5



Legend:



Nuc-component



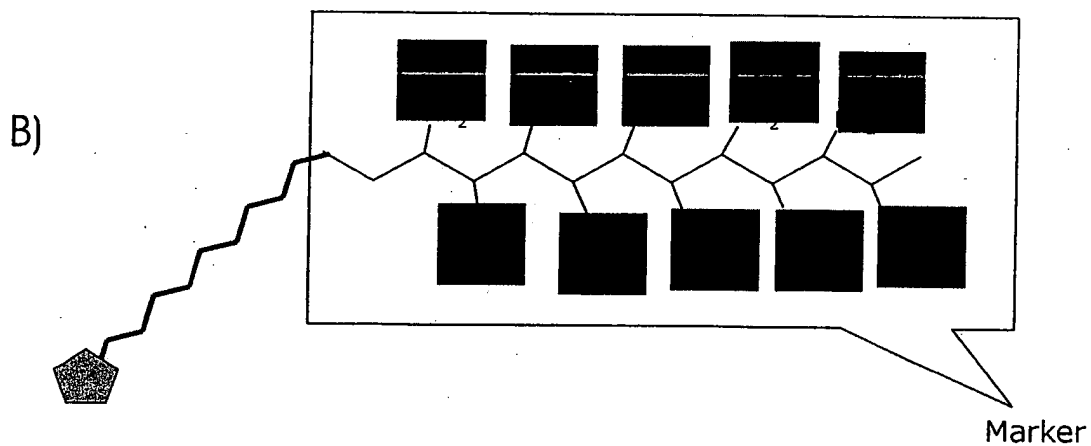
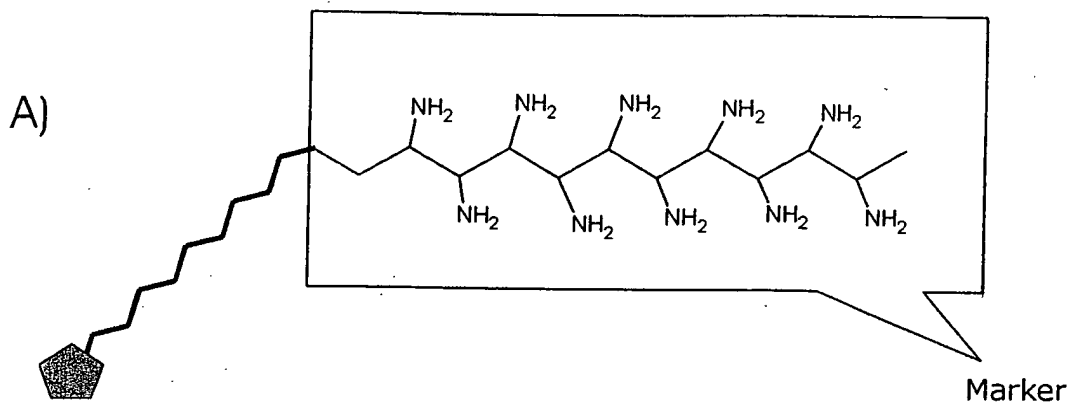
Linker component



Core component

Marker unit
with a linker

Fig. 6



Legend:



Nuc-component



Linker component



Signal giving
marker unit

Fig. 7

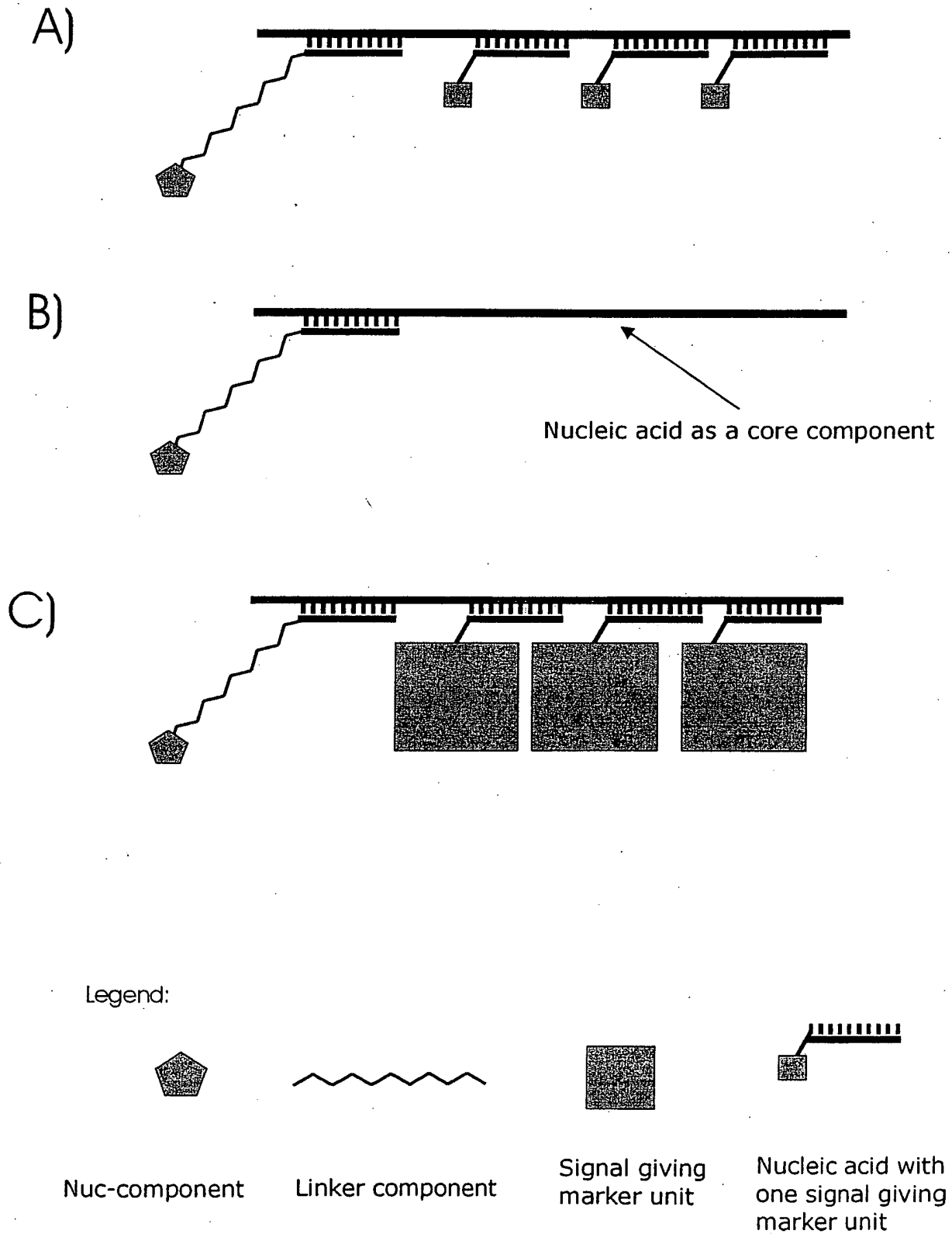
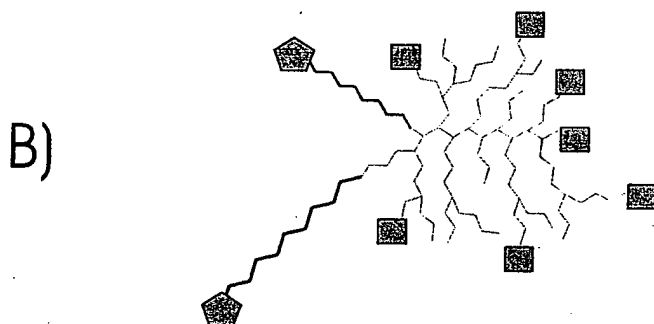
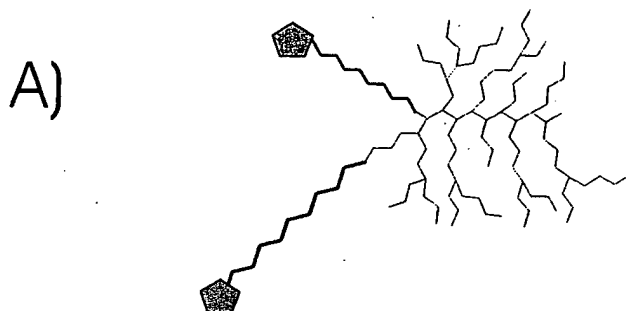


Fig. 8



Legend:



Nuc-component



Linker component

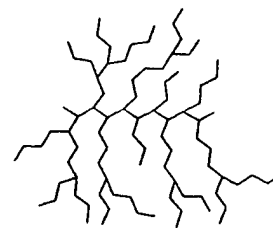
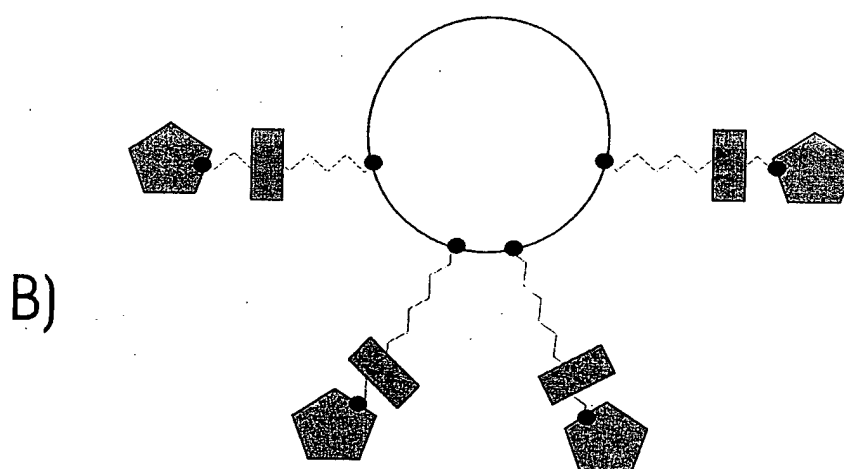
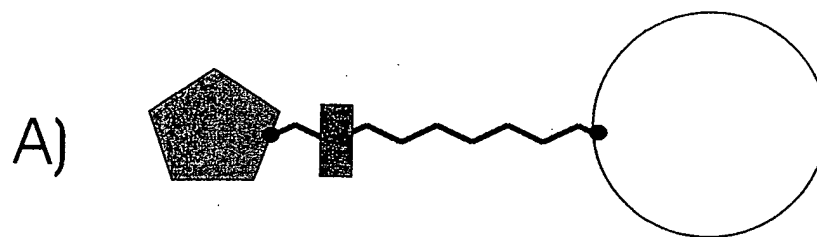
Signal giving
marker unitBranched polymer
as a core component
e.g. Dendrimer

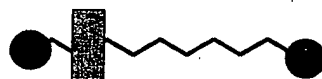
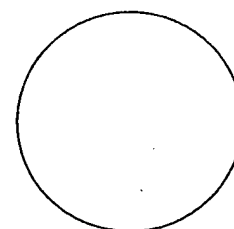
Fig. 9



Legend:



Nuc-component

Linker component
with a cleavable
compound

Marker component

Fig. 10

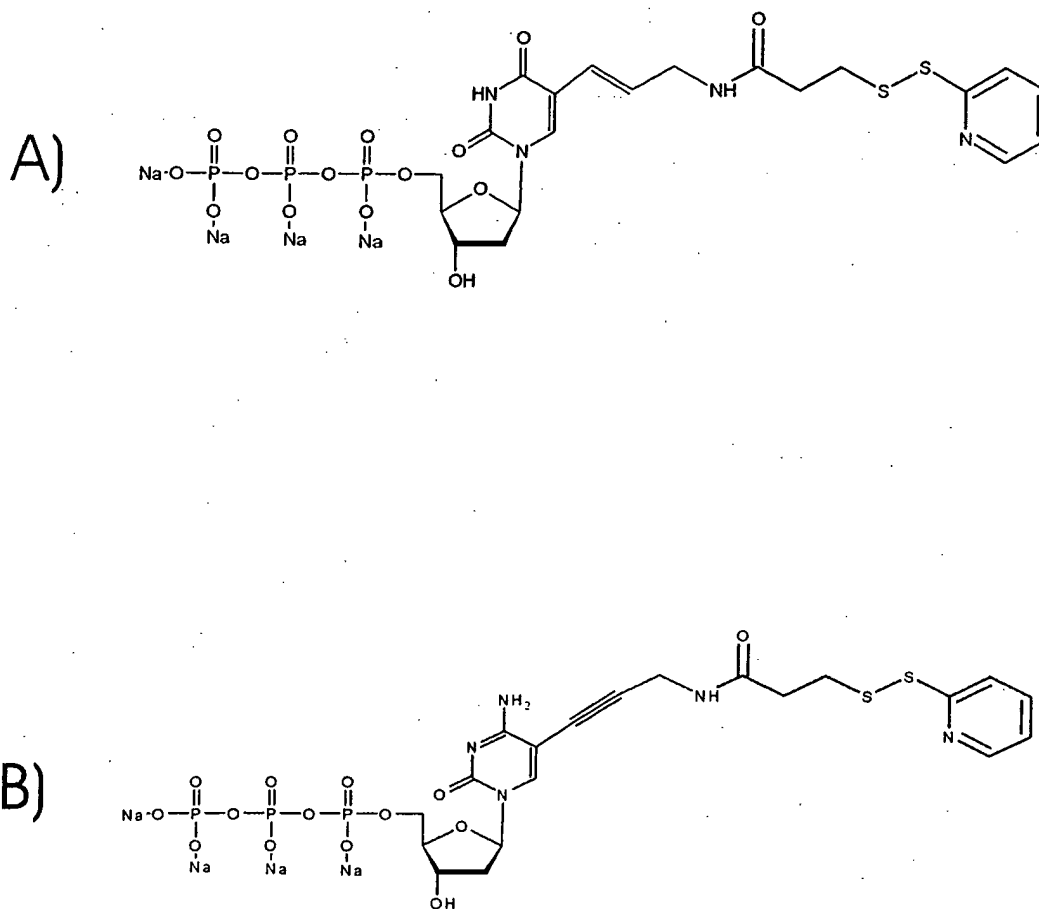


Fig. 11

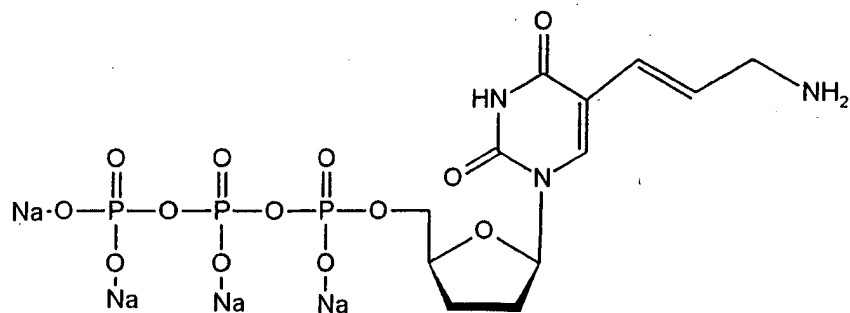
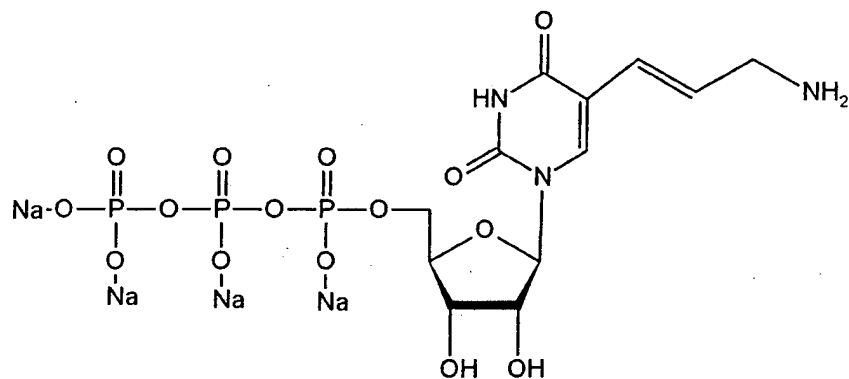
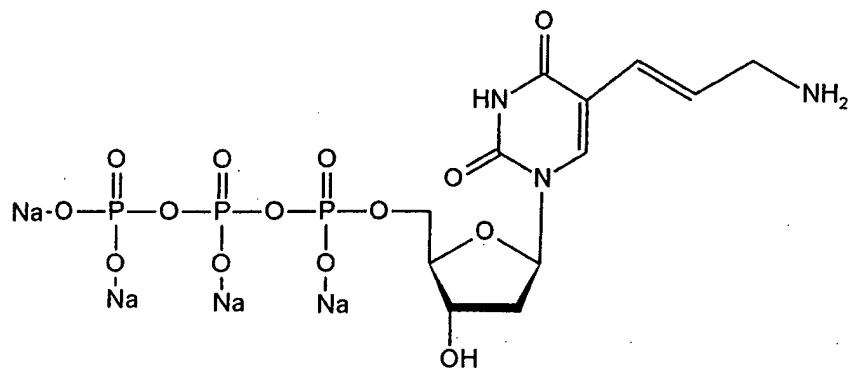


Fig. 12

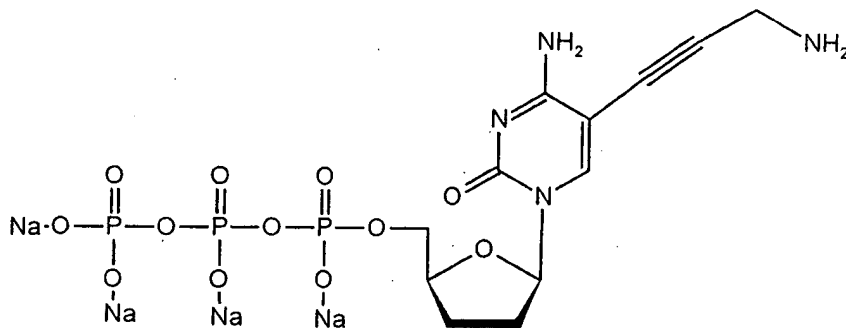
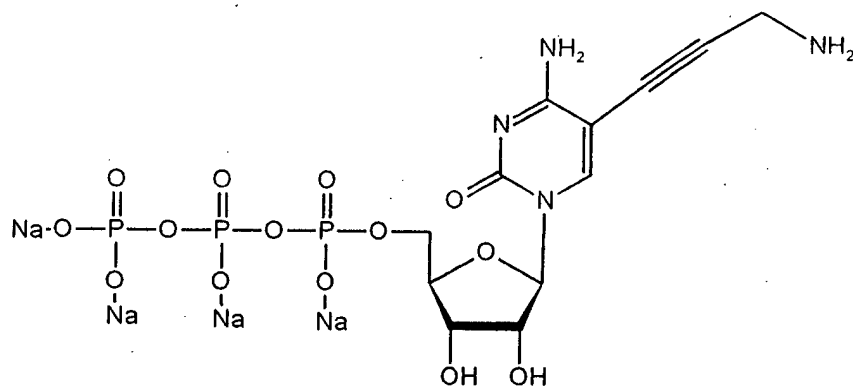
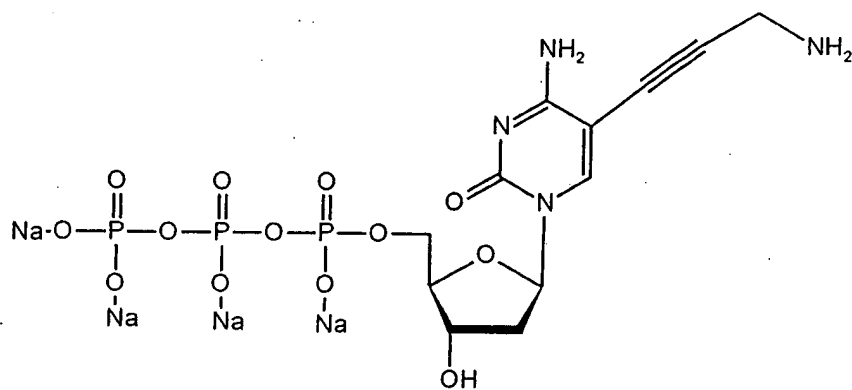


Fig. 13

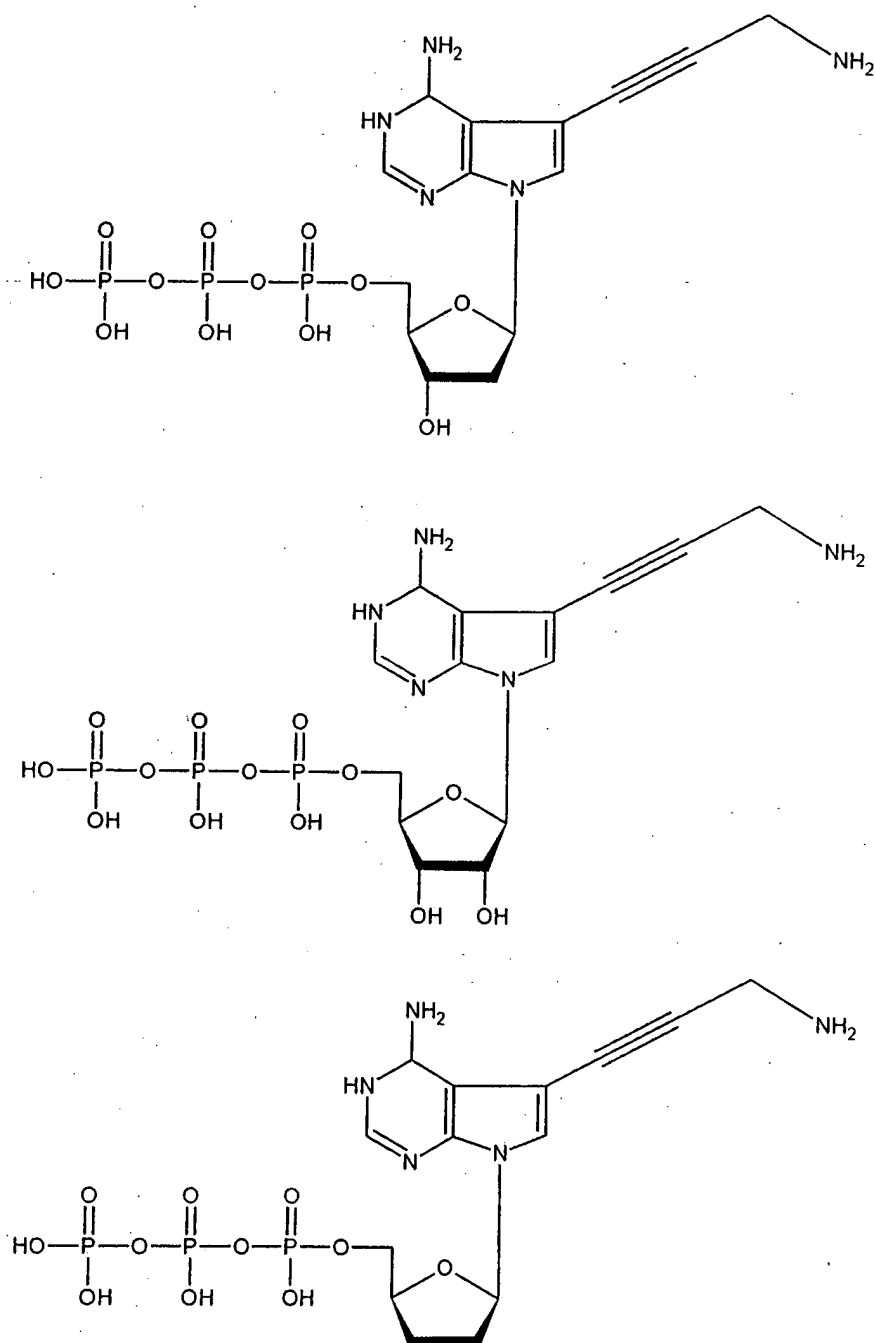


Fig. 14

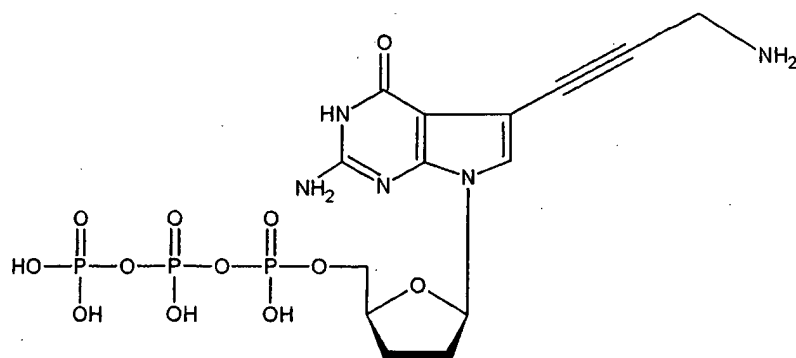
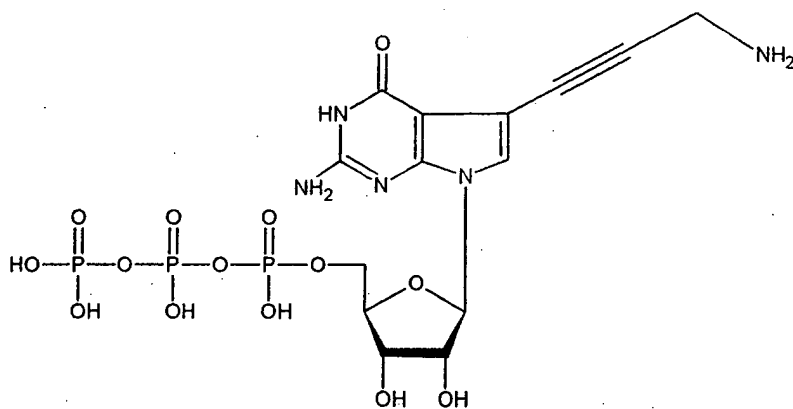
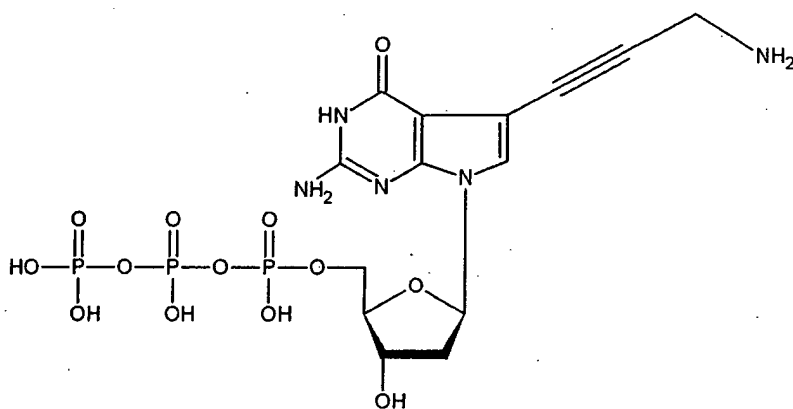


Fig. 15

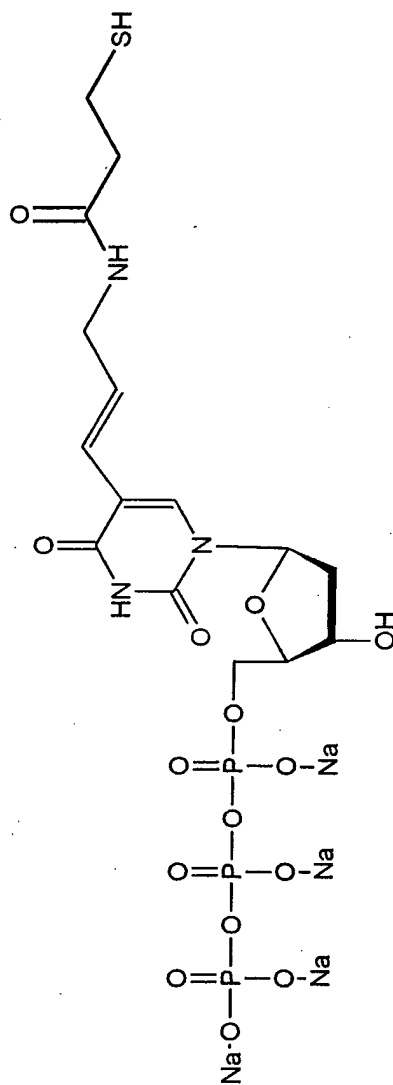


Fig. 16

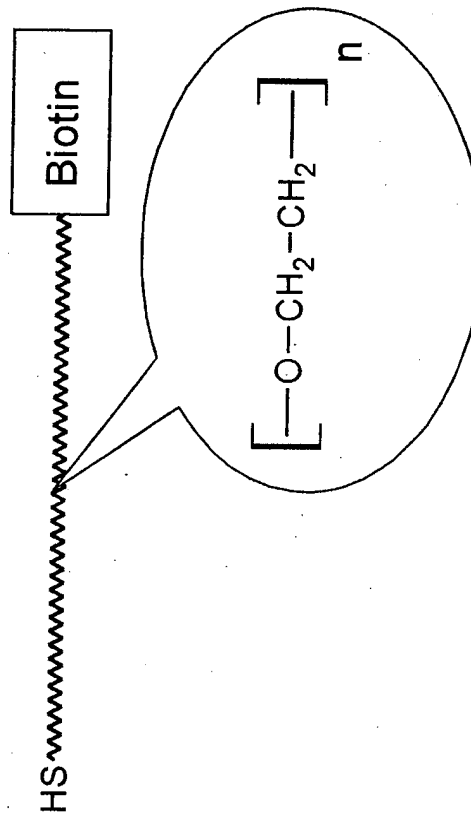


Fig. 17

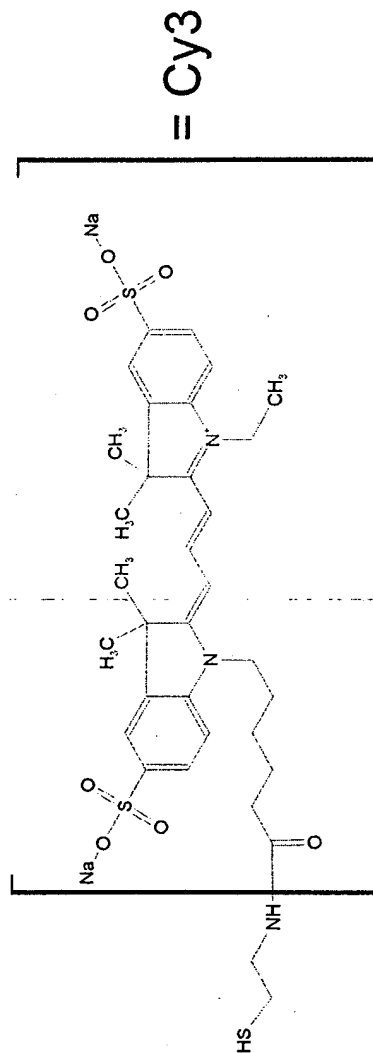
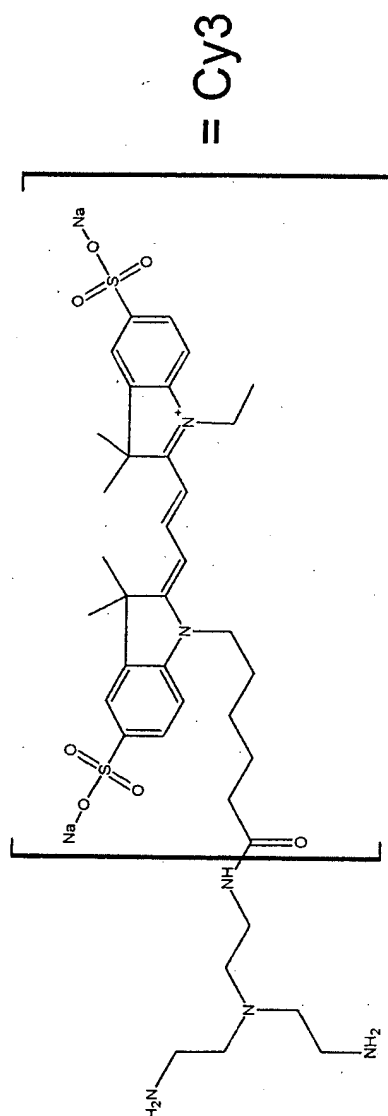


Fig. 18



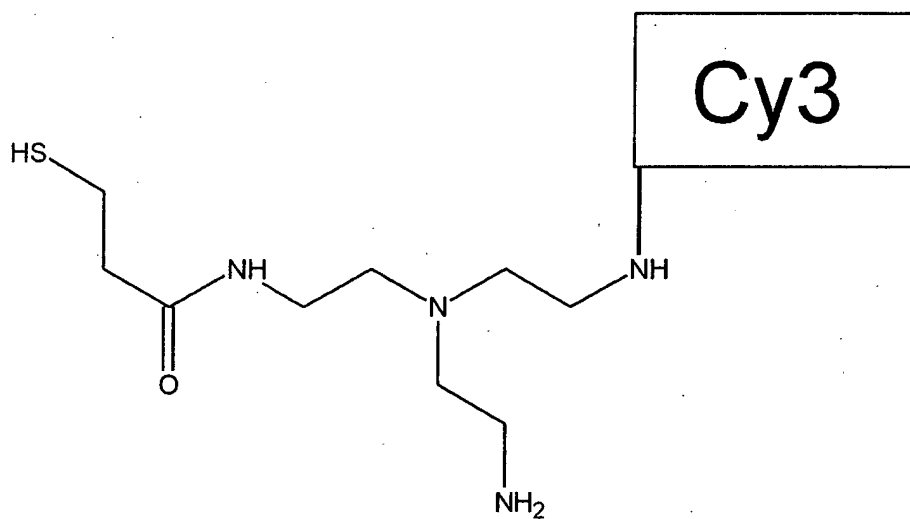


Fig. 20

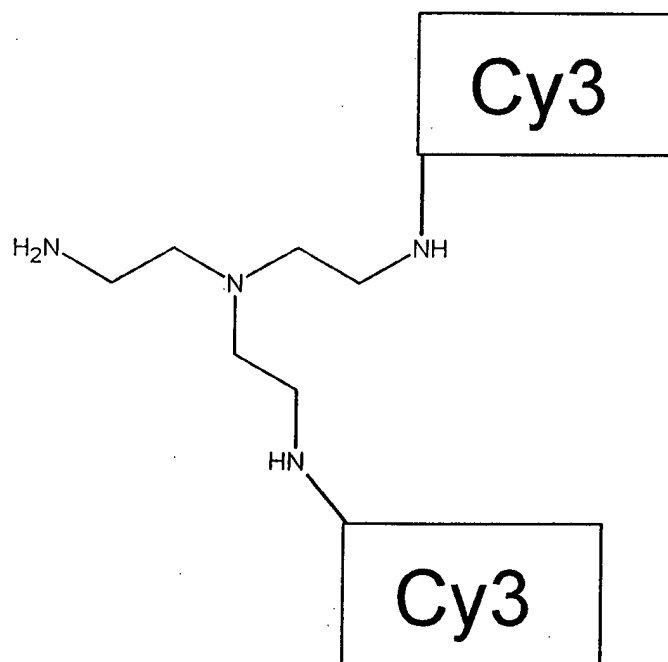


Fig. 21

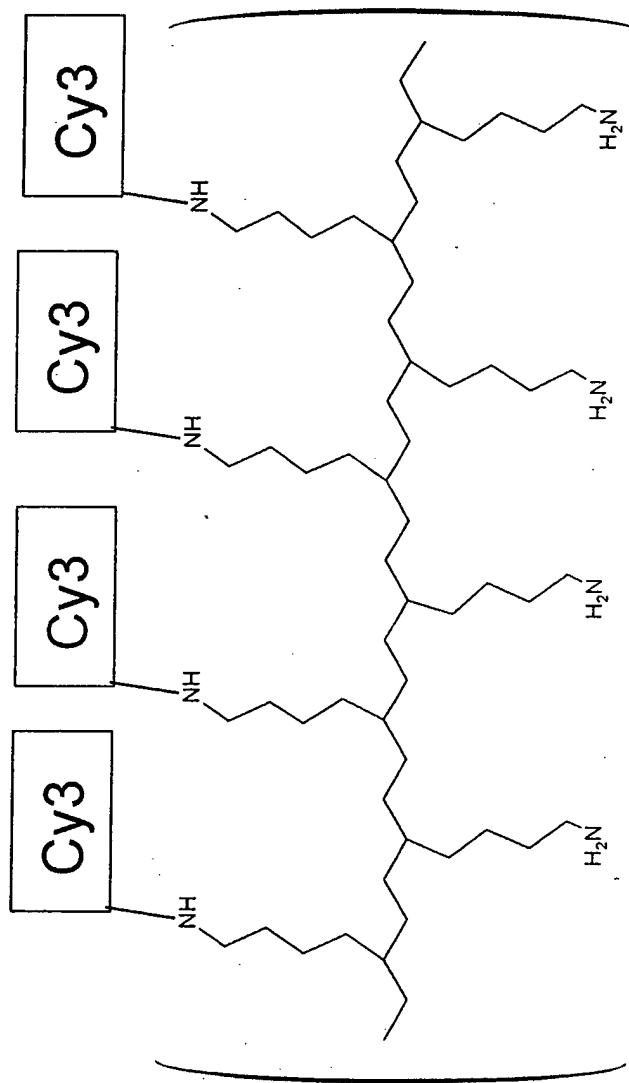


Fig. 22

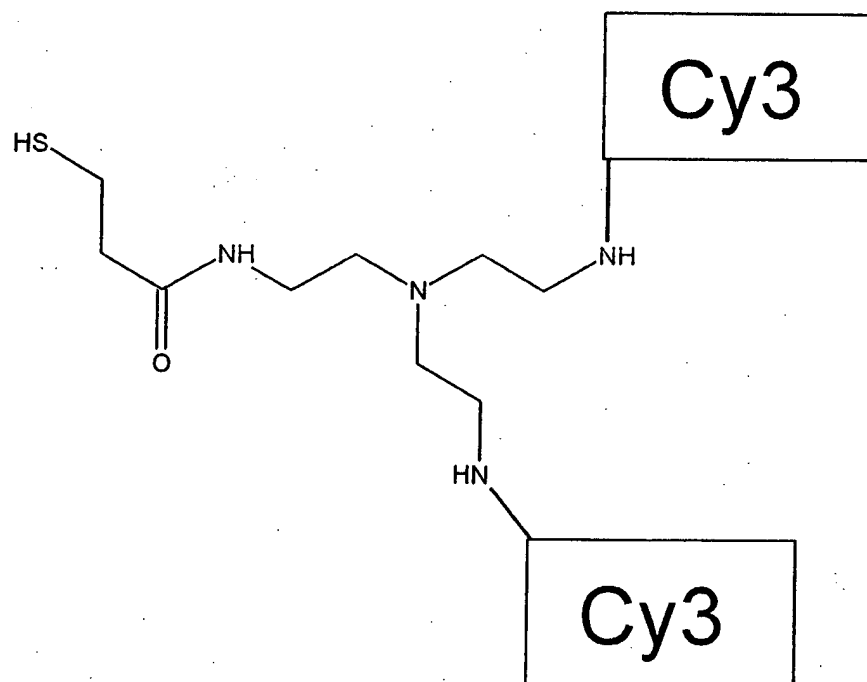


Fig. 23

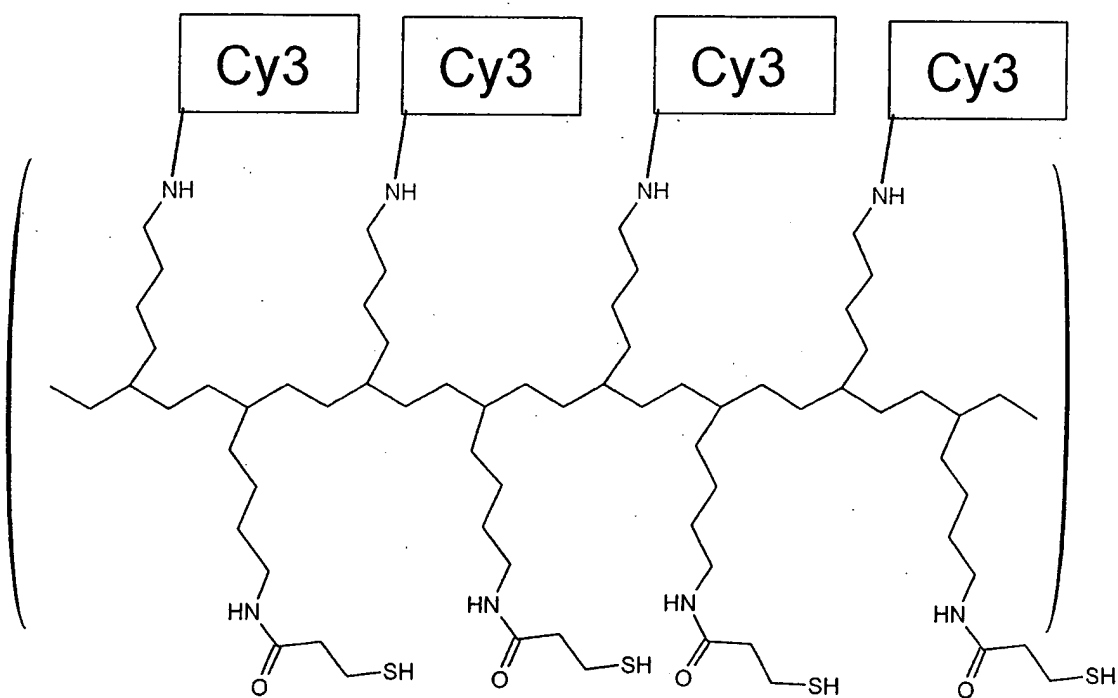
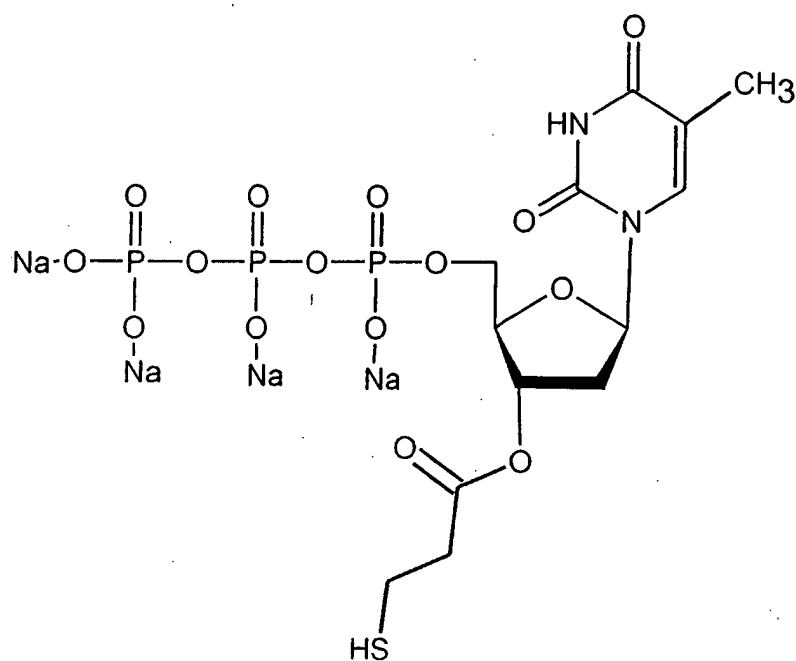


Fig. 24

A)



B)

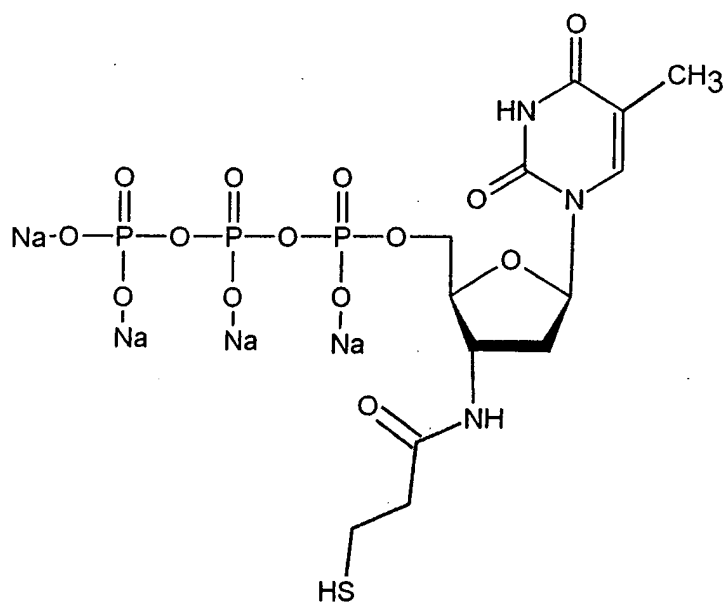


Fig. 25

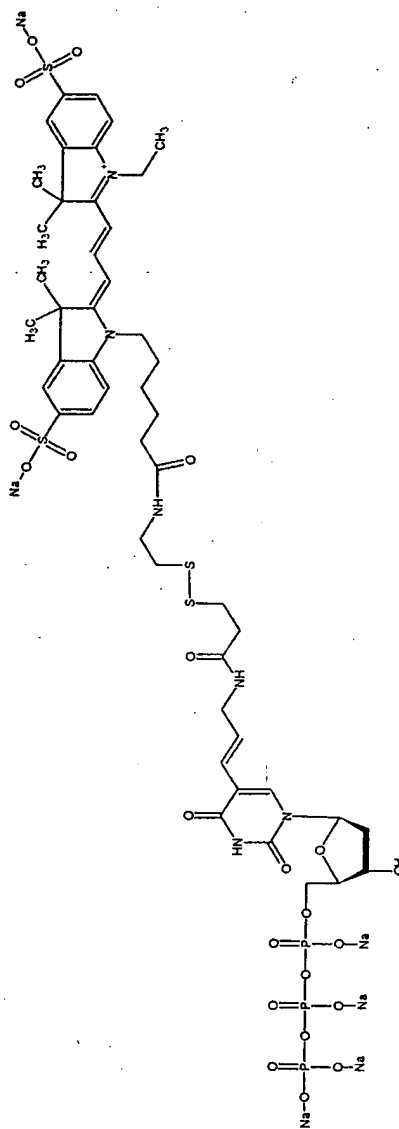


Fig. 26

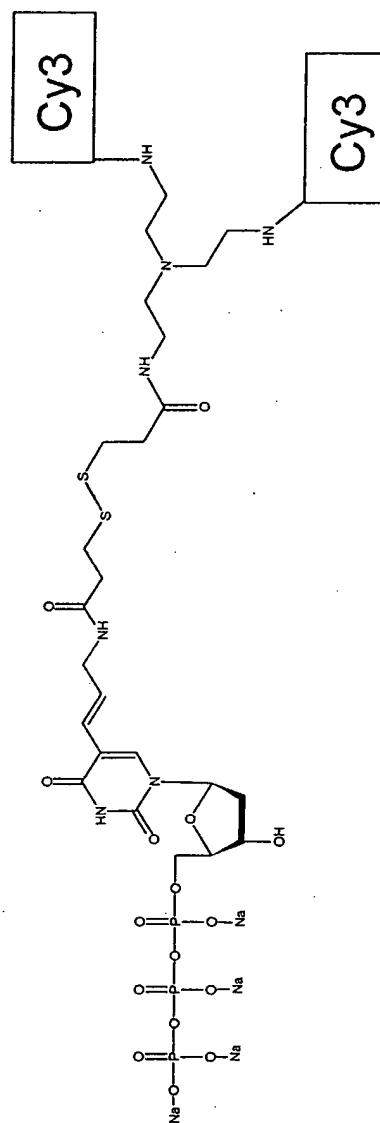


Fig. 27

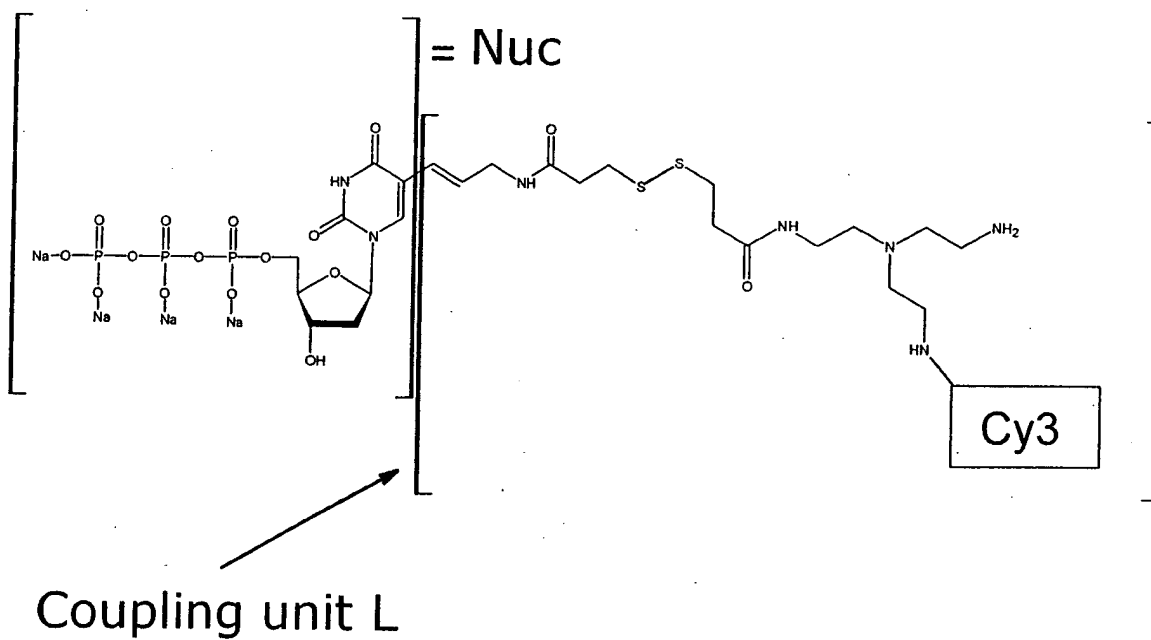
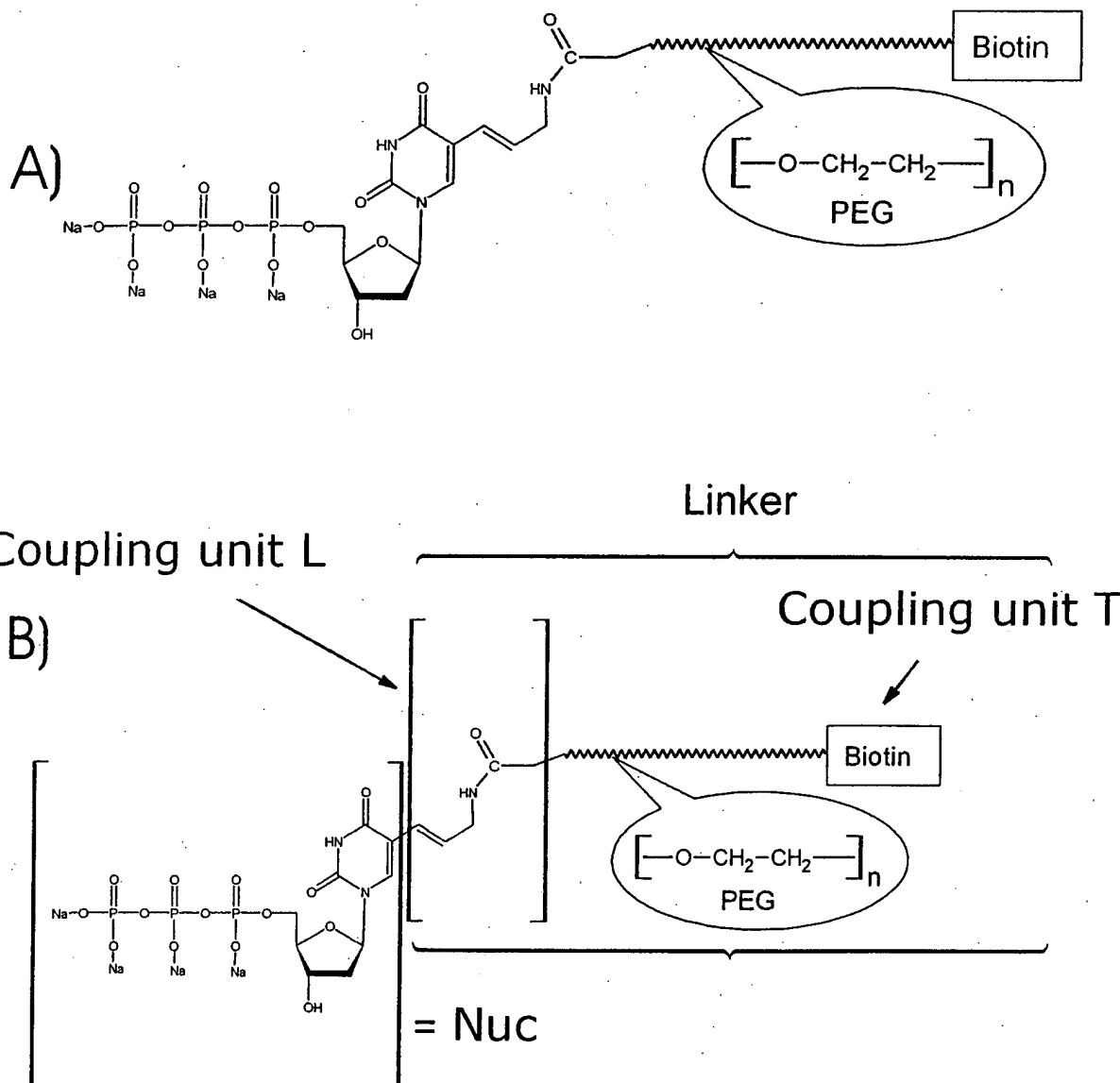


Fig. 28



Legend:

- A) Chemical structure of the nuc-linker-component
- B) Schematic appointment of individual components

Fig. 29

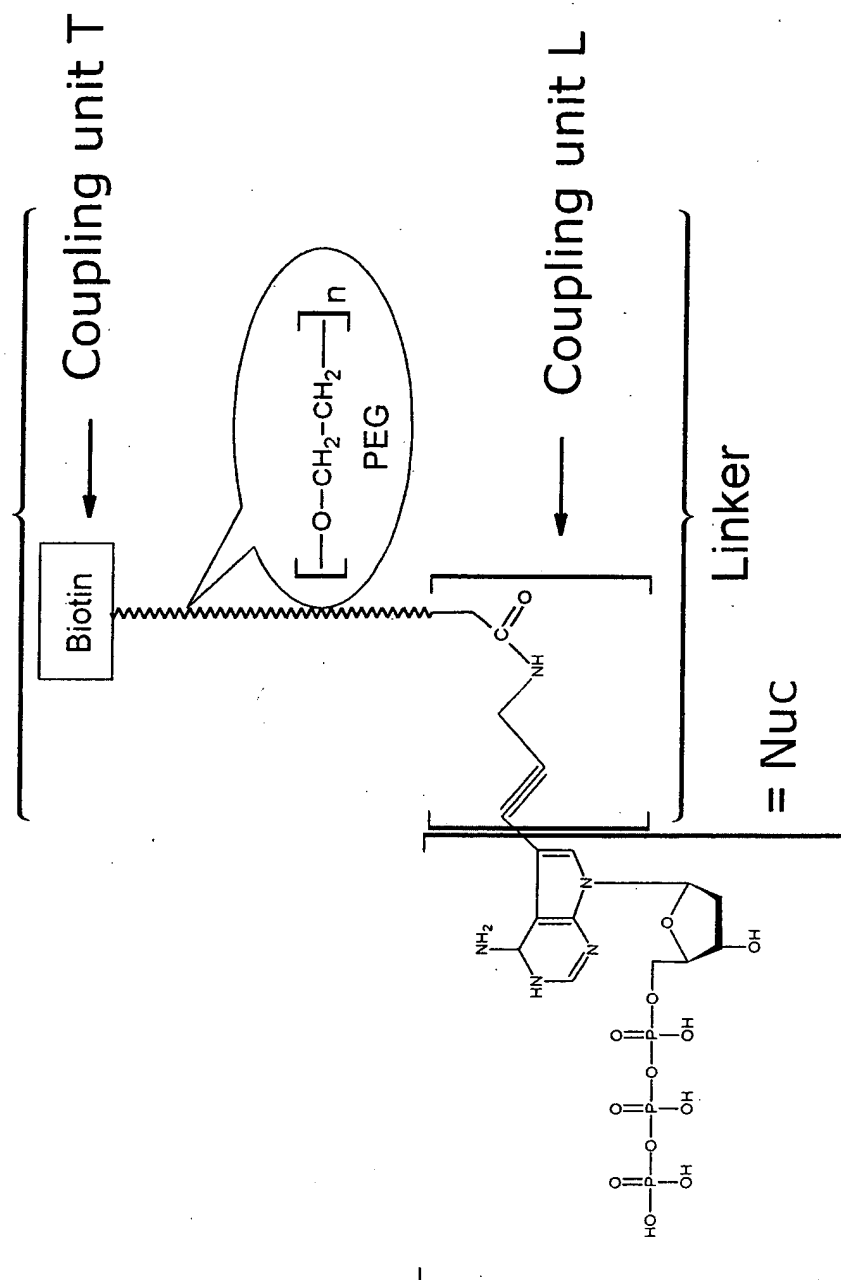


Fig. 30

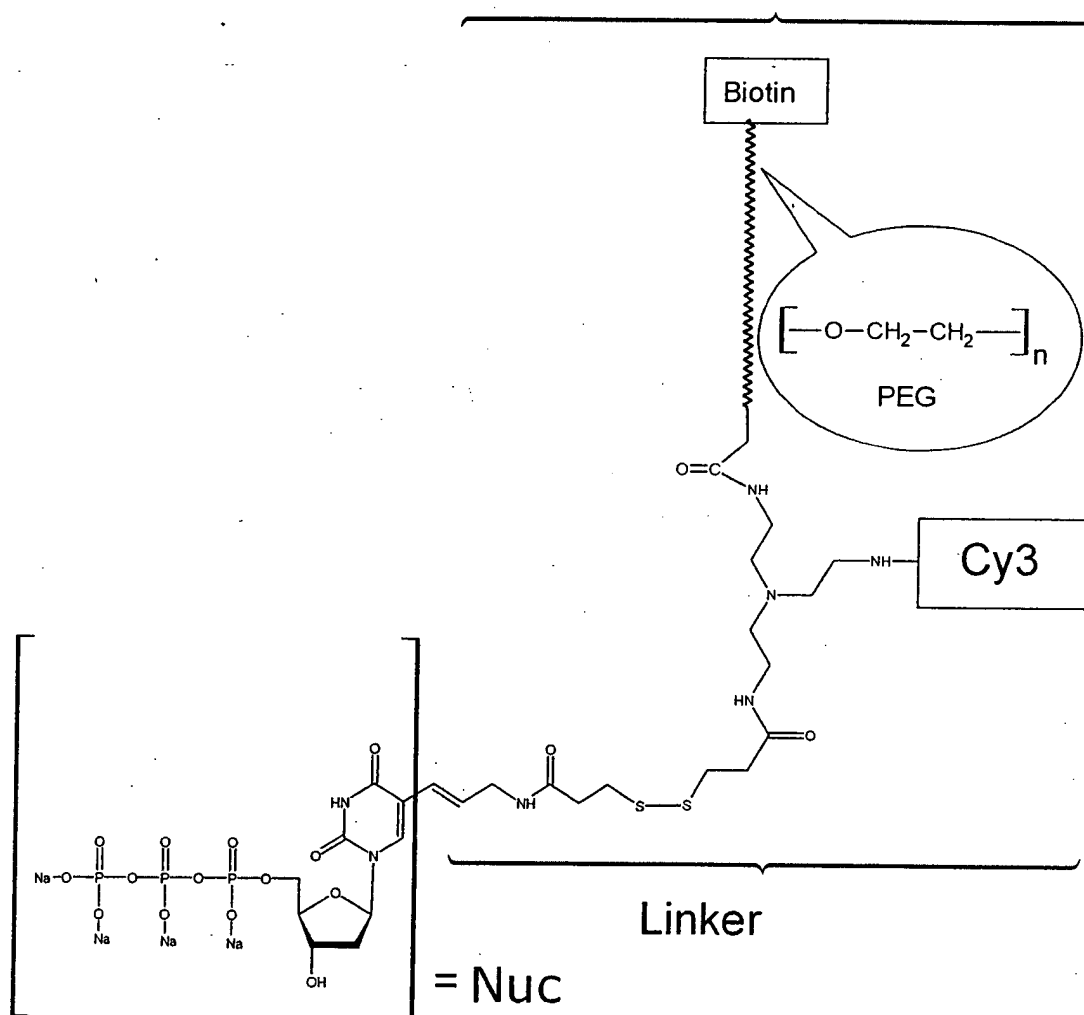


Fig. 31 A

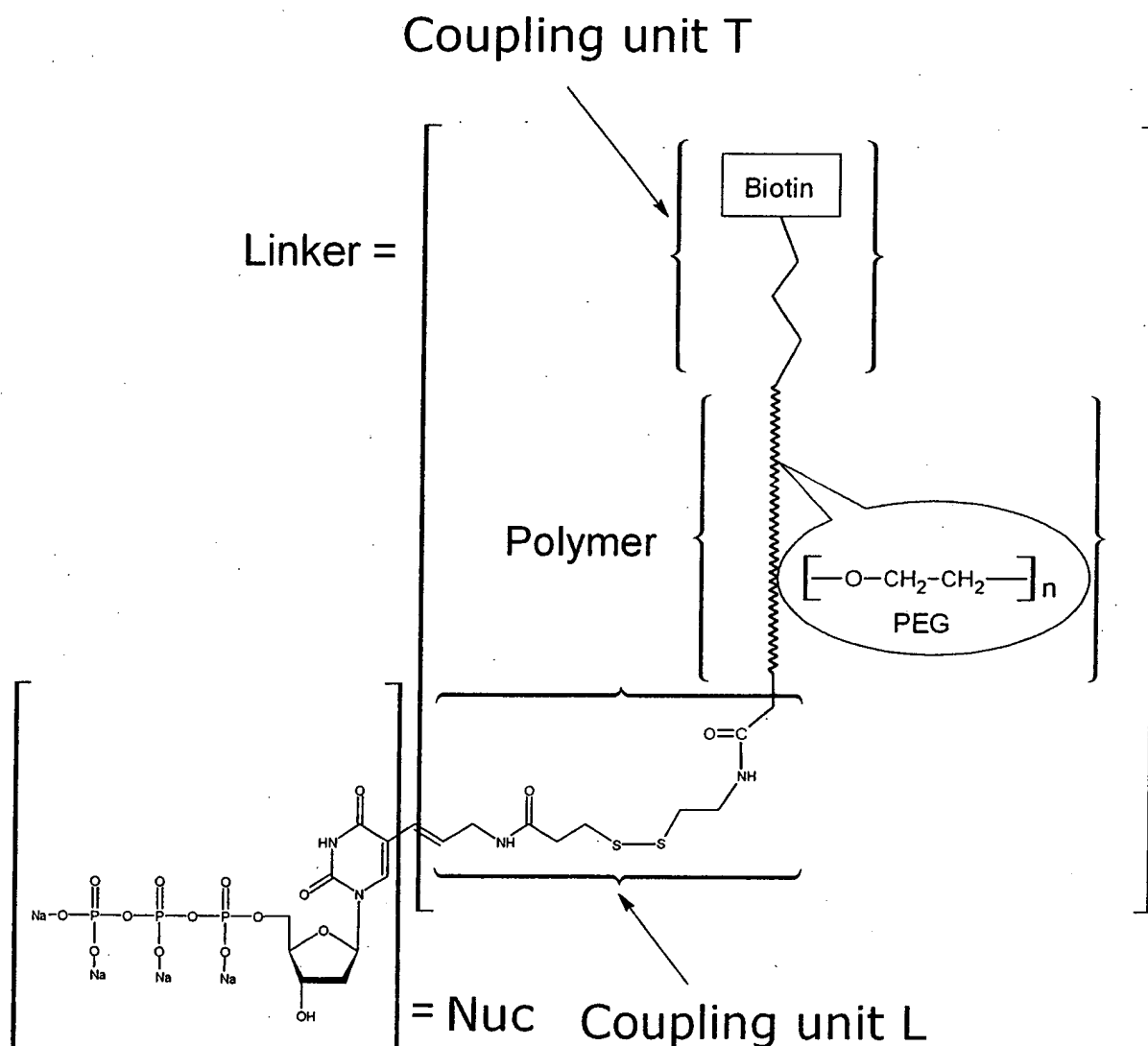


Fig. 31 B

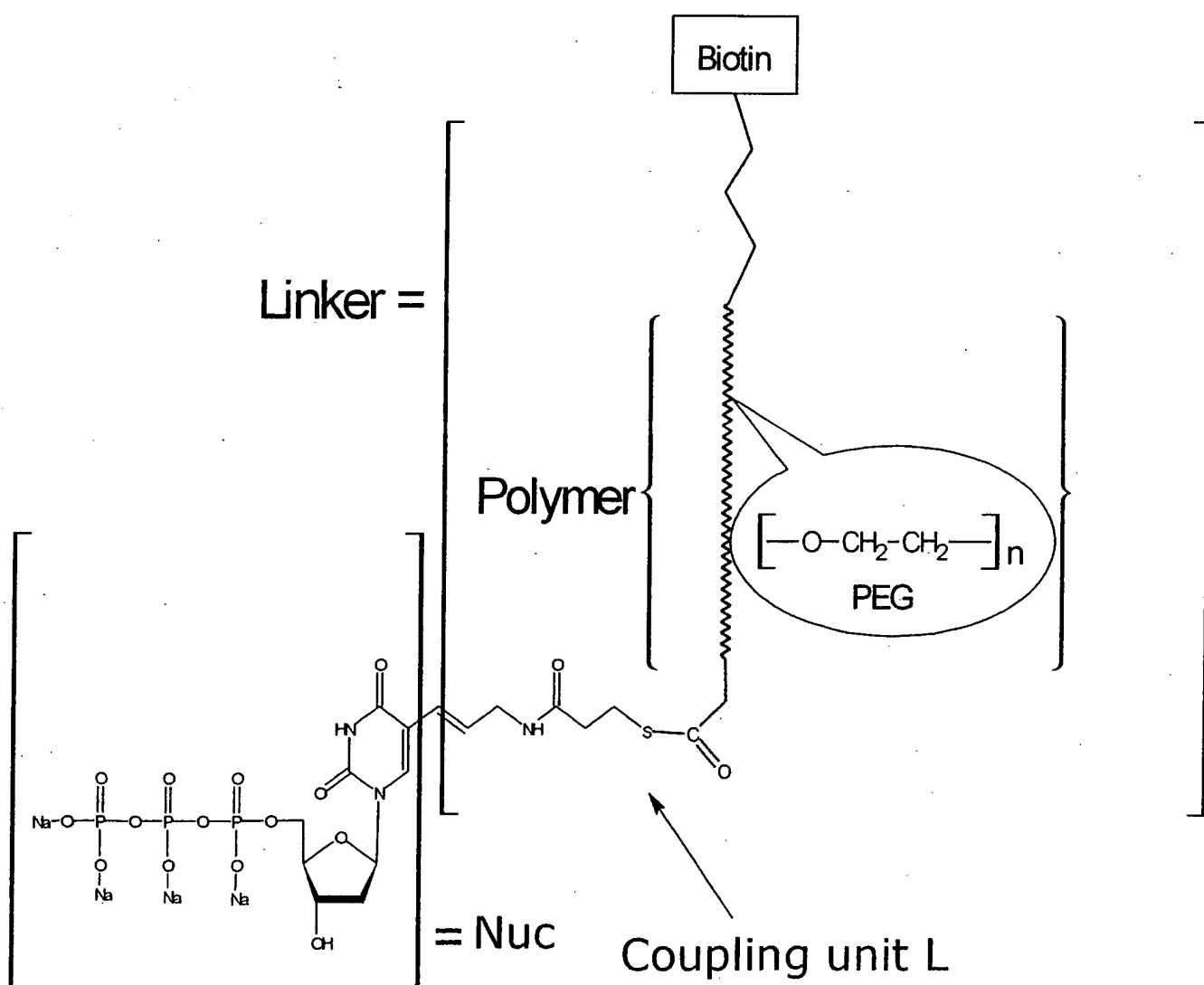
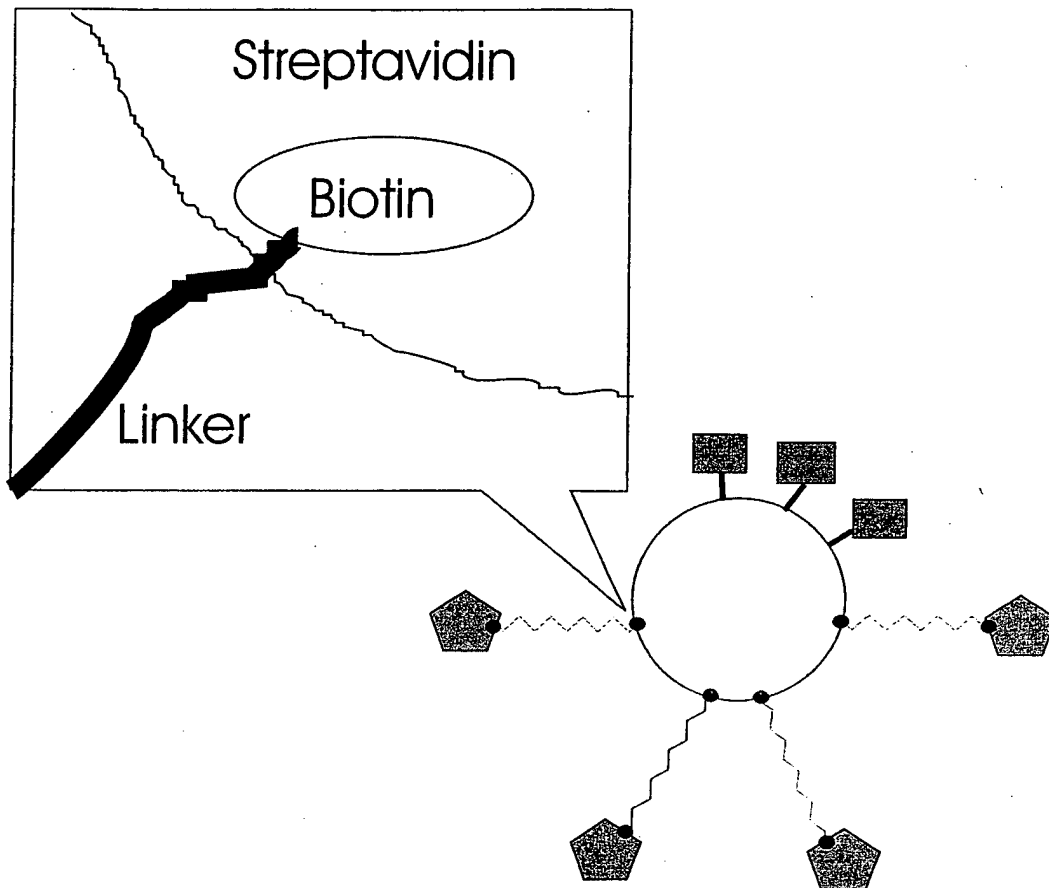


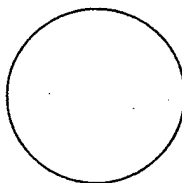
Fig. 32



Legend:



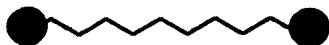
dUTP as a nuc-component



Streptavidin as a marker component

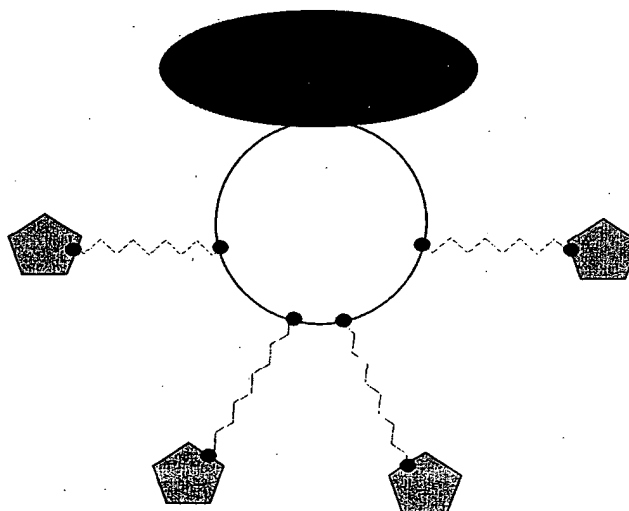


Fluorescent dye



Linker component

Fig. 33



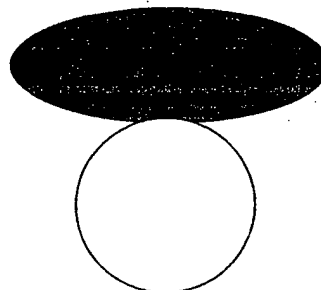
Legend:



dUTP as a nuc-component

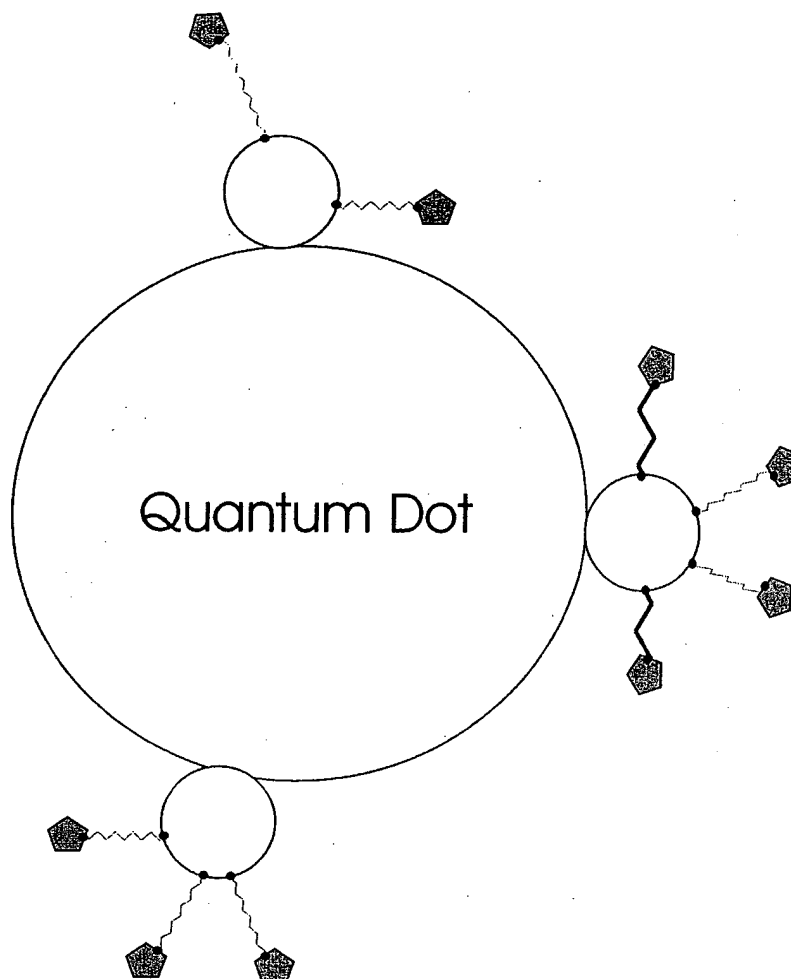


Linker component



Streptavidin-enzyme conjugate
as a marker component

Fig. 34



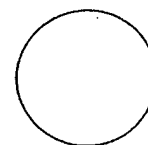
Legend:



dUTP as a nuc-component



Linker component



Streptavidin attached to
Quantum Dot

Fig. 35

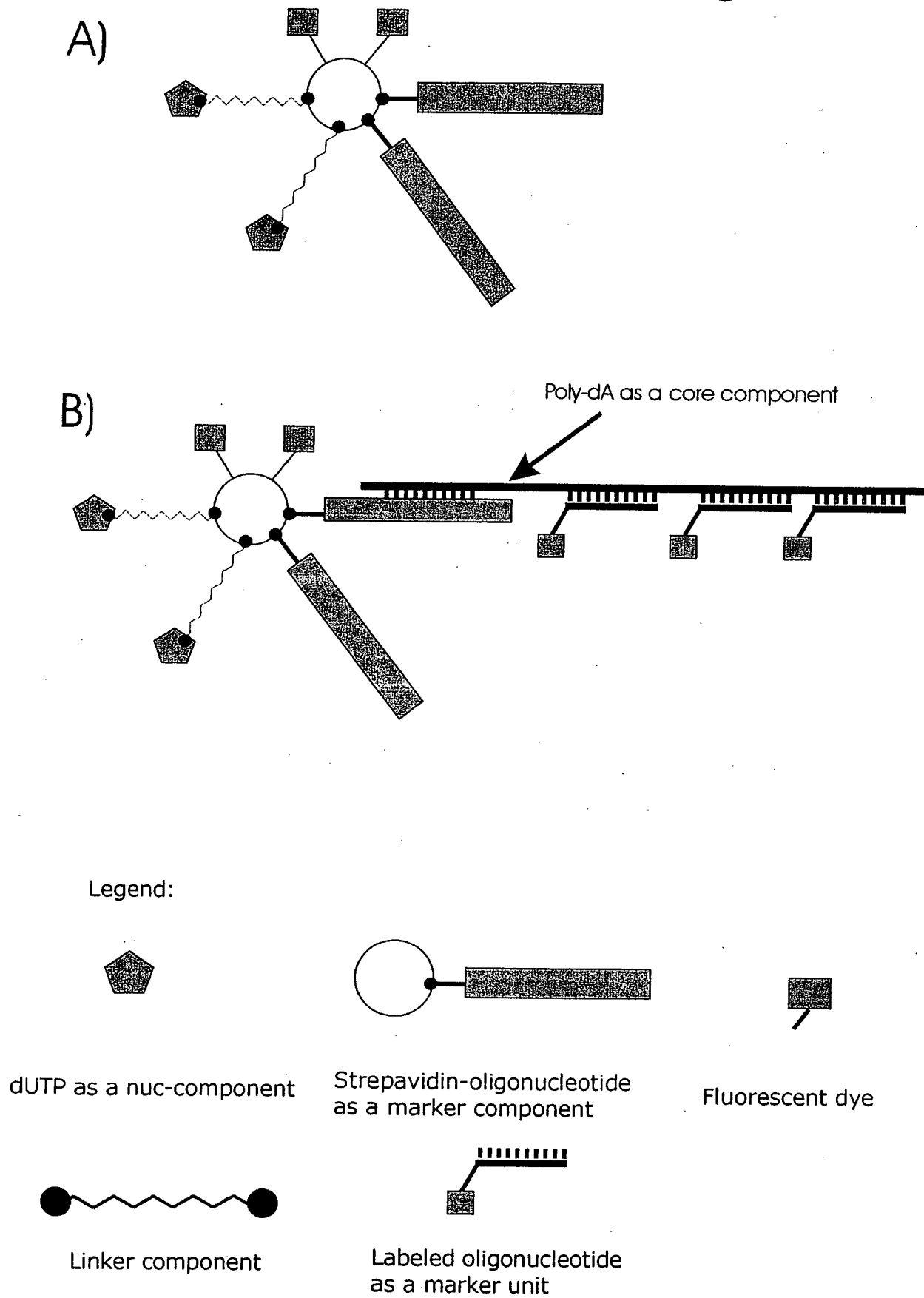
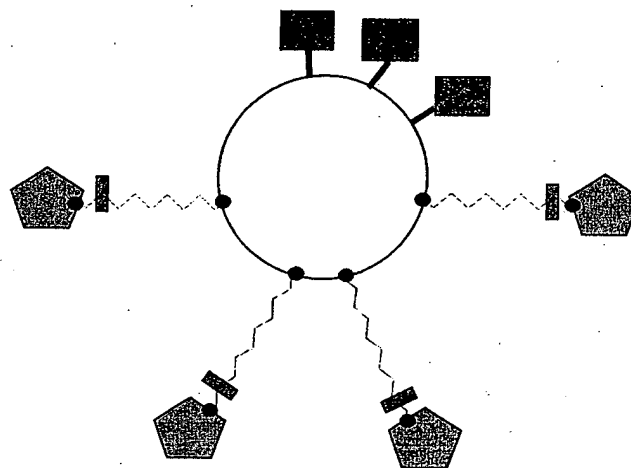


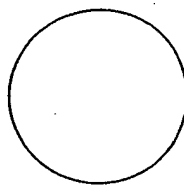
Fig. 36



Legend:



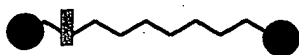
dUTP as a nuc-component



Streptavidin as a
marker component

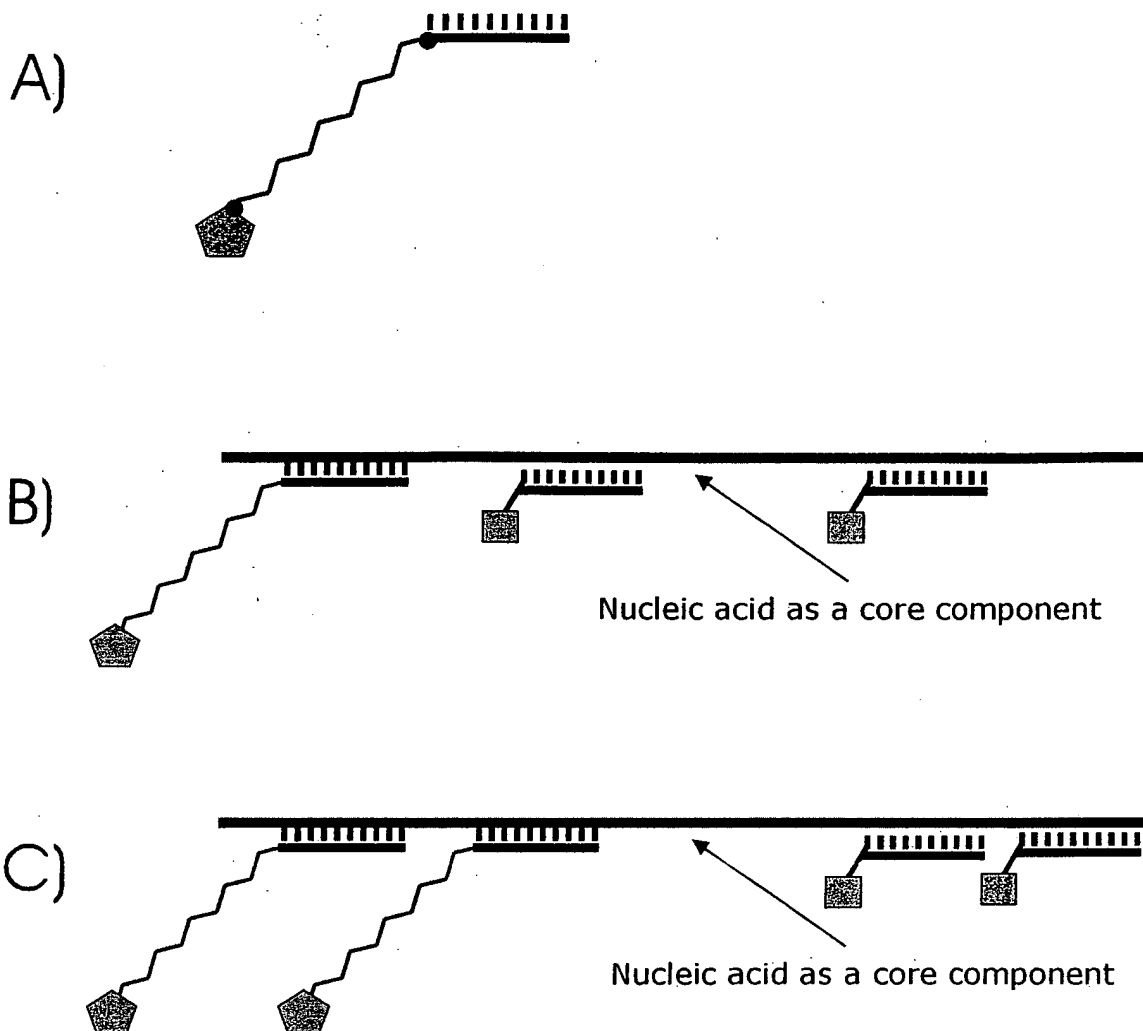


Fluorescent dye



Linker component with a
cleavable compound

Fig. 37



Legend:



dCTP as a nuc-component



Oligonucleotide dT30



Linker component

Fig. 38

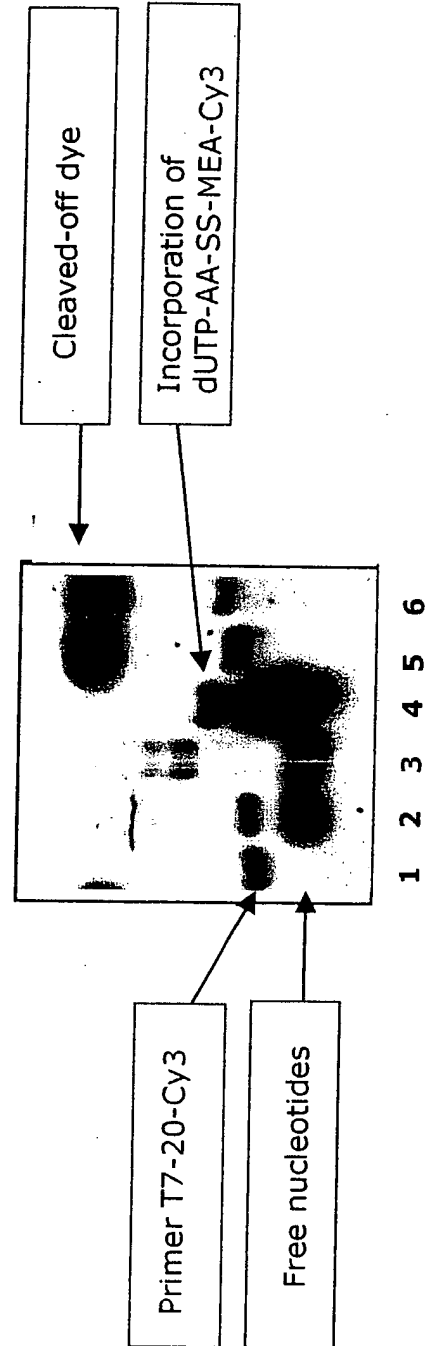


Fig. 39

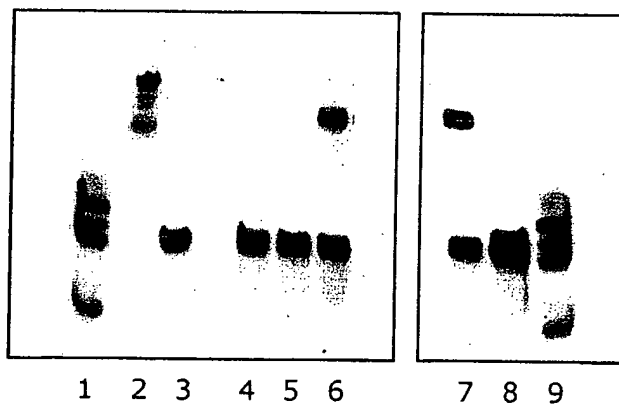
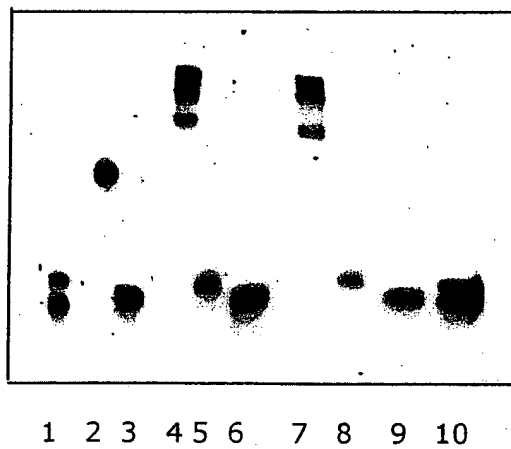


Fig. 40



Title: *MAC* MOLECULAR NUCLEOTIDE COMPOUNDS AND METHODS FOR CARRYING THE SAME

Application No.: 10/578,313

Atty. Docket No.: 076030-0011

Inventor: Dmitry CHERKASOV et al.

Fig. 41

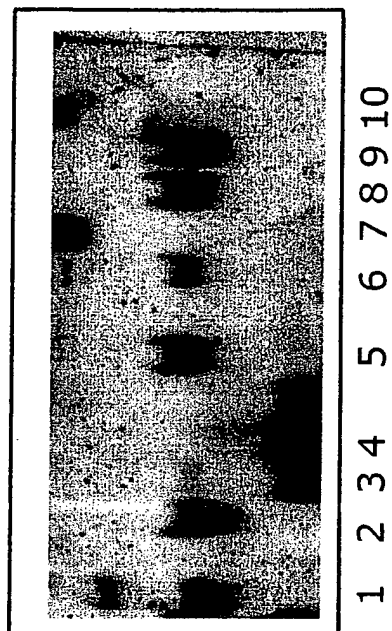


Fig. 42 A

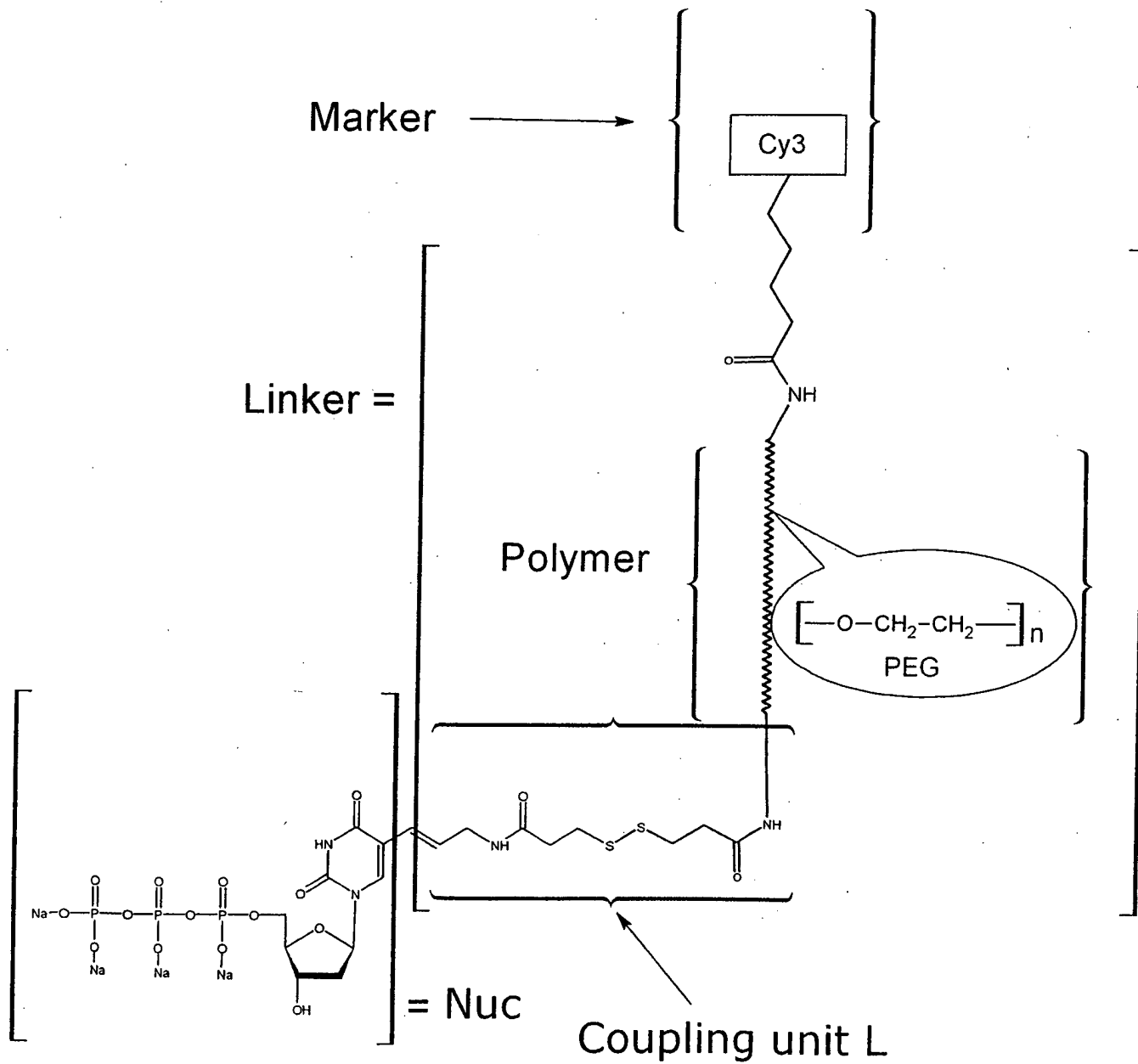


Fig. 42 B

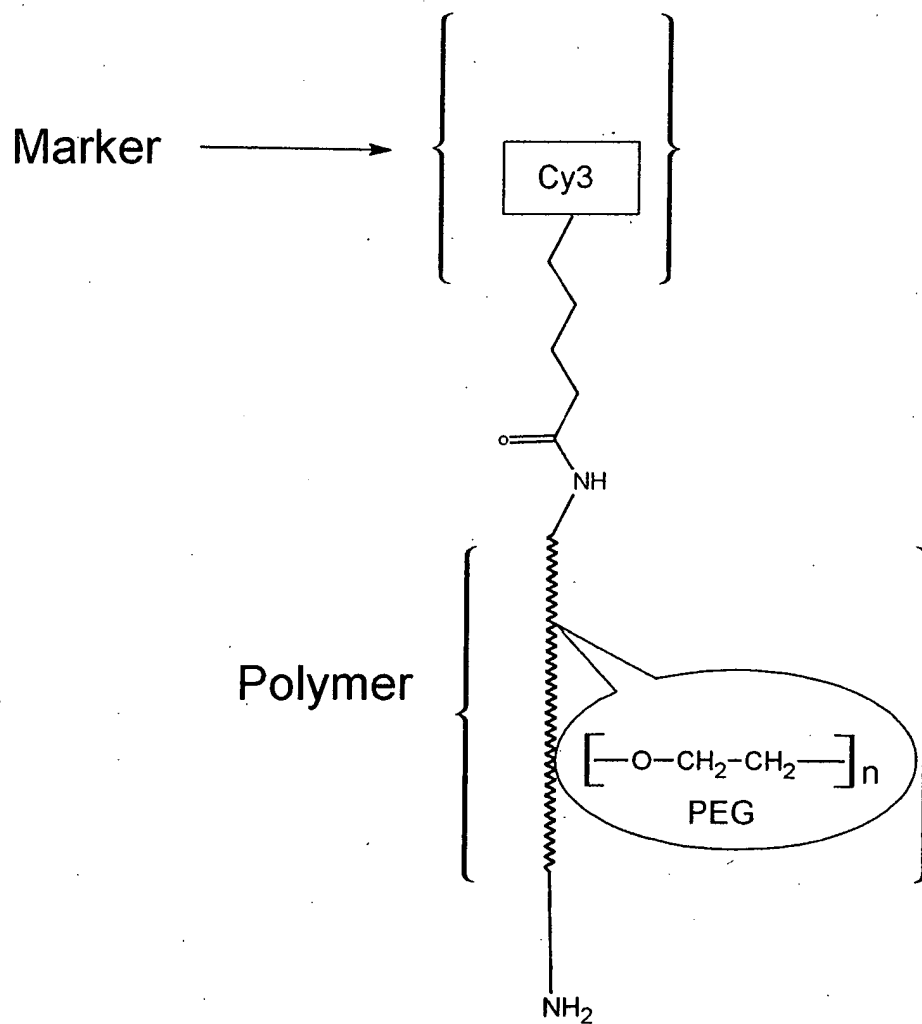


Fig. 43

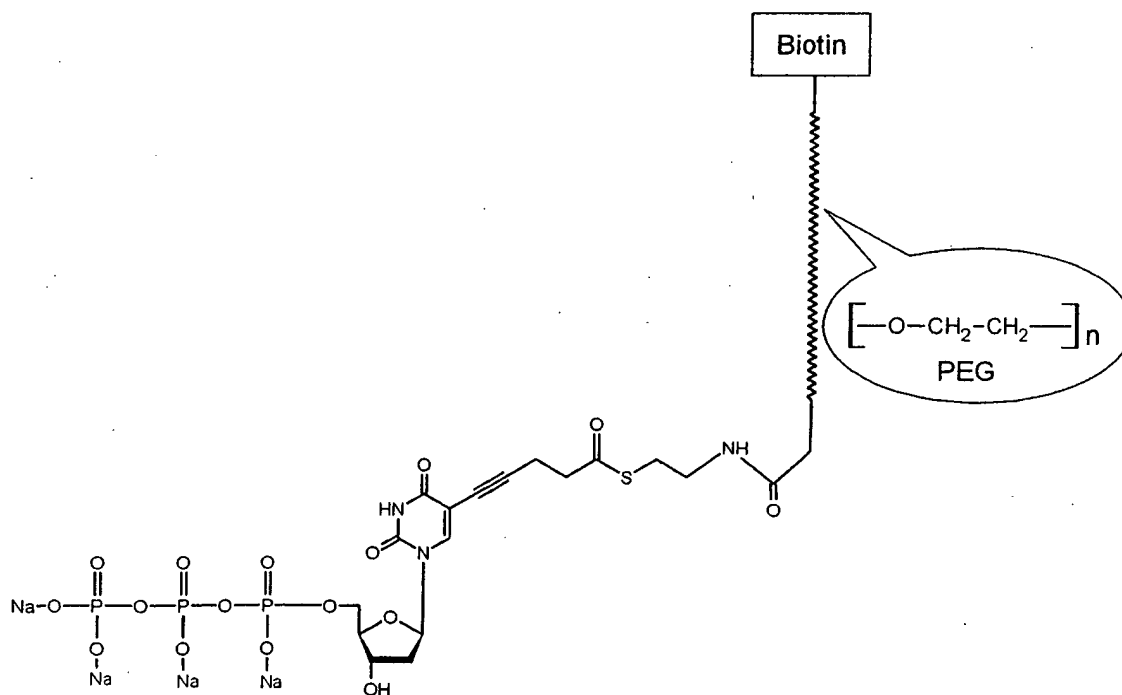


Fig. 44

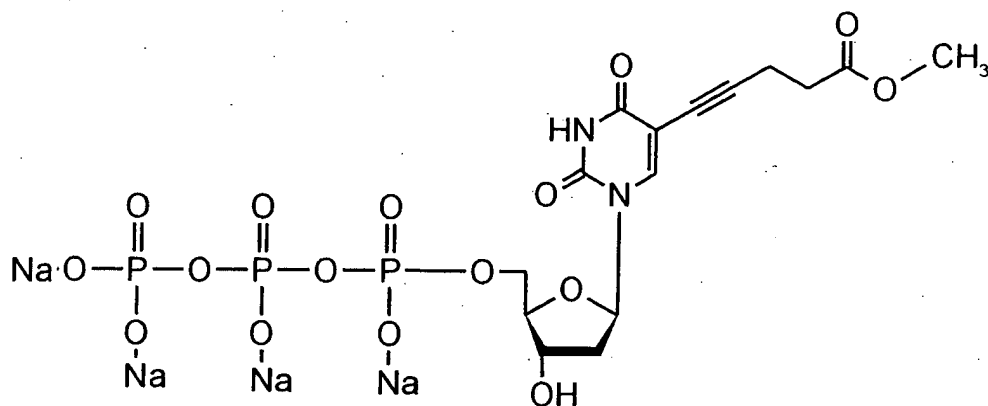


Fig. 45

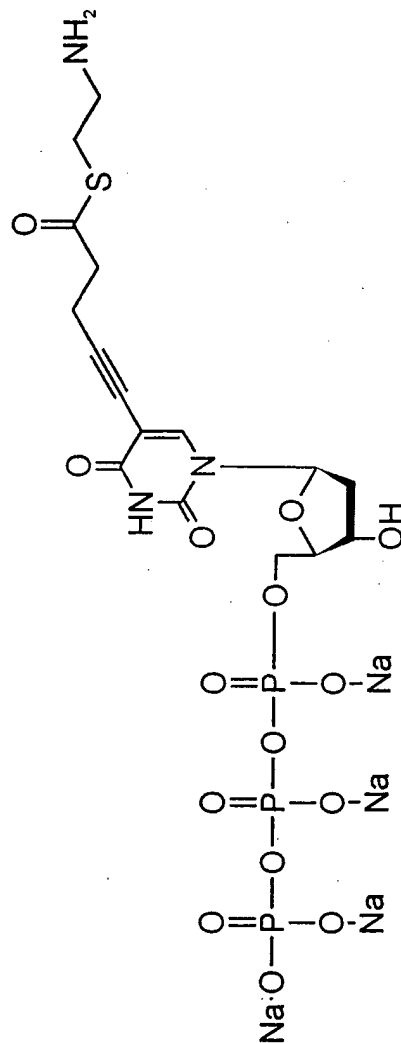


Fig. 46

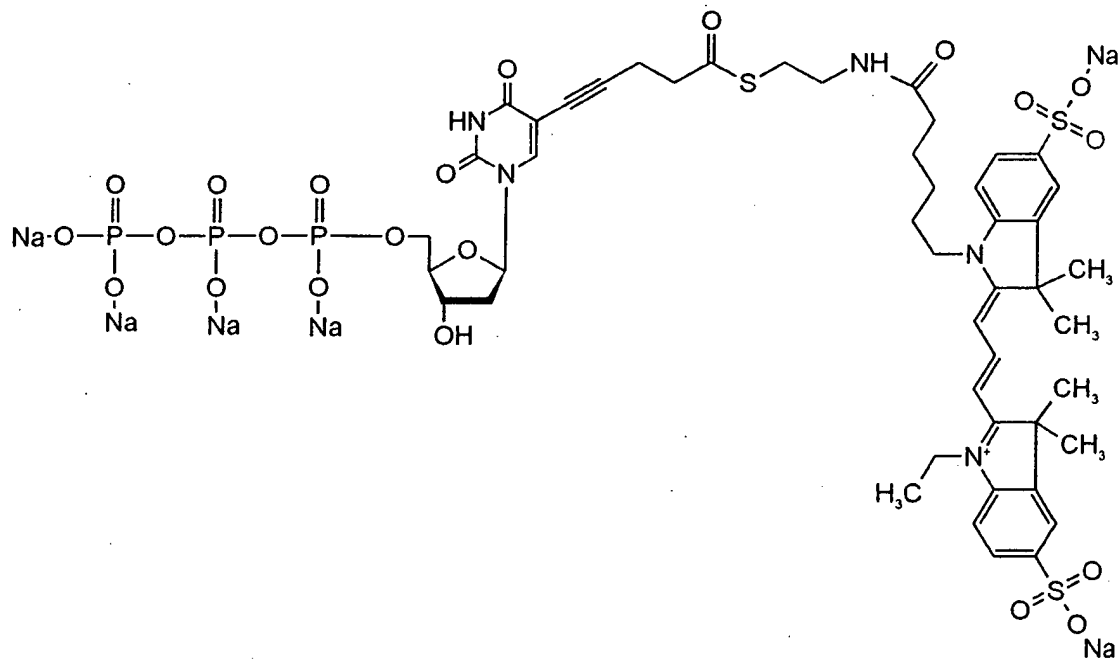


Fig. 47

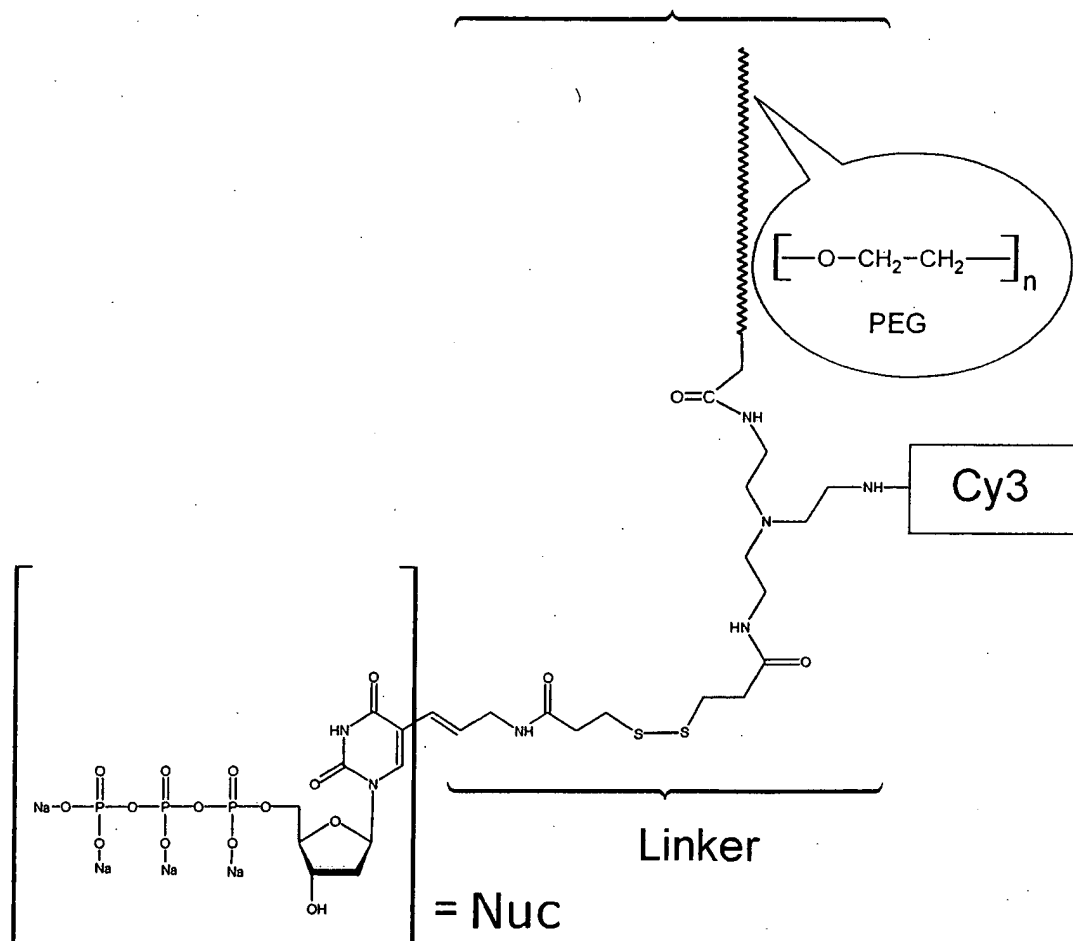


Fig. 48

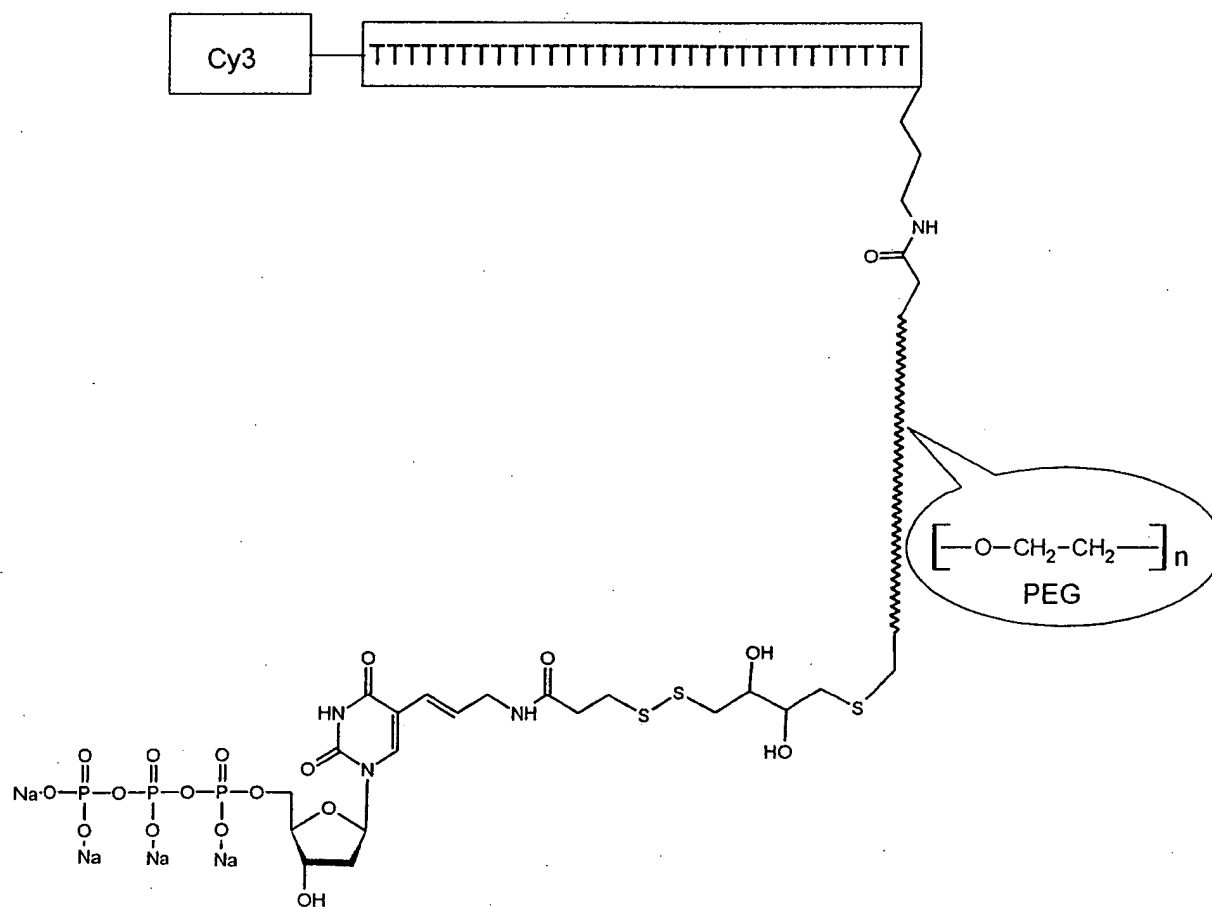


Fig. 49

